

CANADIAN JOURNAL
OF PHYSIOLOGY AND
PHARMACOLOGY

JOURNAL CANADIEN DE
PHYSIOLOGIE ET PHARMACOLOGIE

VOLUME 59, 1981

Author Index / Index des auteurs

- Abe, H.**
The effect of rectal administration of insulin on the short-term treatment of alloxan-diabetic dogs
YOSHIMITSU YAMASAKI, MOTOAKI SHICHI, RYUZO KAWAMORI, TOYOHICO MORISHIMA, NOBUYOSHI HAKUI, TOSHIHIKO YAGI, and HIROSHI ABE
1117
- Abe, M.**
Cyclic nucleotide phosphodiesterase in rat parotid gland
NORIKO YOKOYAMA, MAYUMI ABE, and SHUNSUKE FURUYAMA
293
- Abenhaim, L.**
Platelet phenolsulfotransferase and catecholamines: physiological and pathological variations in humans
L. ABENHAIM, Y. ROMAIN, and O. KUCHEL
300
- Abrahams, V.C.**
Comment: Unresolved questions concerning muscle afferents
V.C. ABRAHAMS
656
- Andersson, O.**
Peripheral feedback mechanisms acting on the central pattern generators for locomotion in fish and cat
O. ANDERSSON, H. FORSSBERG, S. GRILLNER, and P. WALLÉN
713
- Antoniu, L.D.**
Urinary zinc in relation to other cations and flow during volume expansion and intravenous chlorothiazide
DON W. WATKINS, LUCY D. ANTONIU, and ROBERT J. SHALHOUB
562
- Appenteng, K.**
Proprioceptive input from the jaw muscles and its influence on lapping, chewing, and posture
T. TAYLOR, K. APPENTENG, and T. MORIMOTO
636
- Armour, J.A.**
Epicardial coronary venous pressure
J.A. ARMOUR and G.A. KLASSEN
1250
- Arnold, R.**
Somatostatin and gastrin release into the gastric lumen in rats
H. KOOP, G. SIMSON, C. MCINTOSH, R.A. BEDELL, R. ARNOLD, and W. CREUTZFELDT
574
- Assaf, S.Y.**
Commissural potentiation of perforant path evoked responses in the dentate gyrus of the rat
S.Y. ASSAF and J.J. MILLER
1117
- Asselin, J.**
Effects of gestation and lactation on rat gastric fundus
L. JOLICOEUR, J. ASSELIN, and J. MORRISSET
96
- Ayotte, B.**
Role of the pericardium and intact chest wall in the hemodynamic response to positive end-expiratory pressure ventilation
ANDREW L. MORRIS, SIMON W. RABKIN, BRIAN AYOTTE, and GYAN P. SHARMA
45
- Baba, S.**
Insulin and glucagon in rats with islet cell tumors induced by small doses of streptozotocin
GEN YOSHINO, TSUTOMU KAZUMI, SOICHIRO MORITA, and SHIGEKI BABA
818
- Bamrah, V.S.**
Segmental ventricular adjustments to brief periods of ischemia in the dog
Z.J. BOSNJAK, J.L. SEAGARD, E.J. ZUPERKU, R.L. COON, H.M. SINGH, V.S. BAMRAH, and J.P. KAMPINE
287
- Barabé, J.**
The degradation of bradykinin (BK) and of des-Arg⁹-BK in plasma
F. MARCEAU, M. GENDREAU, J. BARABÉ, S. ST-PIERRE, and D. REGOLI
131
- Barabé, J.**
Pharmacological studies of kinins in venous smooth muscles
P. GAUDREAU, J. BARABÉ, S. ST-PIERRE, and D. REGOLI
371
- Barabé, J.**
Structure-activity study of kinins in vascular smooth muscles
P. GAUDREAU, J. BARABÉ, S. ST-PIERRE, and D. REGOLI
380

- Barney, C.C.**
Thermoregulatory responses of tailed and tailless rats to isoproterenol
DONALD E. SPIERS, CHRISTOPHER C. BARNEY, and MELVIN J. FREGLEY 847
- Barrientos, A.**
Circulatory effects of acute chronic endotoxemia in rats
R. KEELER, ANAMARIA BARRIENTOS, and K. LEE 204
- Barrowman, J.A.**
Effects of bradykinin on intestinal transcapillary fluid exchange
J.A. BARROWMAN, M.A. PERRY, P.R. KVIETYS, M. ULRICH, and D.N. GRANGER 786
- Bauce, L.G.**
Synthesis and assay for activity of a proposed anorexogenic agent, L-pyroglyutamyl-L-histidyl-glycine
LORENZO G. BAUCE, CRYSTAL ELLIOTT, RHIANNON HUGHES, and H. JOSEPH GOREN 88
- Beaudoin, A.R.**
Distribution of amylase and chymotrypsin in four regions of the rat pancreas
ADRIEN R. BEAUDOIN, PIERRE ST-JEAN, and GINETTE GIRARD 884
- Beckett, S.D.**
Relative sensitivity of the canine sinus node and atrioventricular node to acetylcholine
G.E. MUSGRAVE, C.E. BRANCH, and S.D. BECKETT 1058
- Bedell, R.A.**
Somatostatin and gastrin release into the gastric lumen in rats
H. KOOP, G. SIMSON, C. MCINTOSH, R.A. BEDELL, R. ARNOLD, and W. CREUTZFELDT 574
- Belcastro, A.N.**
Calcium activation of sarcoplasmic reticulum ATPase following strenuous activity
A.N. BELCASTRO, M. ROSSITER, M.P. LOW, and M.M. SOPPER 1214
- Berry, P.C.**
Lithium accelerates the development of tolerance to alcohol in rats
FRED J. BOLAND, C. ALLISON MORGAN, and PAUL C. BERRY 1203
- Biggs, D.F.**
The mechanism of the bronchoconstriction induced by unilateral orthodromic stimulation of the carotid sinus nerves
D.F. BIGGS and M.A. PETERSON 965
- Bisgard, G.E.**
The response of few-fiber carotid chemoreceptor preparations to almitrine in the dog
GERALD E. BISGARD 396
- Bkaily, G.**
Explanted cardiac cells: a model to study drug actions?
O.F. SCHANNE and G. BKAILY 443
- Boegman, R.J.**
Axonal transport in dystrophic hamsters
R.J. BOEGMAN and P.L. WOOD 202
- Boland, F.J.**
Lithium accelerates the development of tolerance to alcohol in rats
FRED J. BOLAND, C. ALLISON MORGAN, and PAUL C. BERRY 1203
- Bolter, C.P.**
Respiratory and cardiovascular responses to temperature changes in the perfused pulmonary arteries of the dog
J.R. LEDSONE, W.O. KAN, and C.P. BOLTER 493
- Bolton, T.M.**
A problem associated with the measurement of ketone body kinetics in vivo
SUSAN E.H. HALL and T.M. BOLTON 1178
- Borg, H.**
Human interferon for clinical trials: removal of pyrogen by a simple two-step procedure
H. BORG, E. LUNDREN, M.D. HOLLENBERG, W.L. VEALE, Y.H. TAN, and A. MCPHERSON 890
- Bosnjak, Z.J.**
Segmental ventricular adjustments to brief periods of ischemia in the dog
Z.J. BOSNJAK, J.L. SEAGARD, E.J. ZUPERKU, R.L. COON, H.M. SINGH, V.S. BAMRAH, and J.P. KAMPINE 287
- Boucher, R.**
Effects of tonin on the response to norepinephrine by the aortic strip of the hypertensive rat
R. GARCIA, E.L. SCHIFFRIN, G. THIBAUT, R. BOUCHER, and J. GENEST 790
- Boucher, R.**
Detection from rat pituitary of β -lipotropin and materials containing opiatelike activity by combined enzymatic radioreceptor assay
J.S.D. CHAN, N.G. SEIDAH, M. IKEDA, J. GUTKOWSKA, R. BOUCHER, J. GENEST, and M. CHRÉTIEEN 811
- Boucher, R.**
Pressor effect of tonin in anephric animals
E.L. SCHIFFRIN, R. GARCIA, J. GUTKOWSKA, R. BOUCHER, and J. GENEST 864
- Boudreau, R.J.**
Effect of arachidonic acid and indomethacin on renal function of dogs with pericardial tamponade
ROBERT J. BOUDREAU and HENRY MANDIN 586
- Boughner, D.R.**
Central and peripheral adaptations of the gas transport system to one-leg training
S.G. THOMAS, D.A. CUNNINGHAM, M.J. PLYLEY, D.R. BOUGHNER, and R.A. COOK 1146
- Branch, C.E.**
Relative sensitivity of the canine sinus node and atrioventricular node to acetylcholine
G.E. MUSGRAVE, C.E. BRANCH, and S.D. BECKETT 1058

- Bressler, B.H.**
Isometric contractile properties and instantaneous stiffness of amphibian skeletal muscle in the temperature range from 0 to 20°C
BERNARD H. BRESSLER 548
- Brien, J.F.**
Acetaldehyde concentration in rat blood and brain during the calcium carbimide - ethanol interaction
D.J. HOOVER and J.F. BRIEN 65
- Brill, R.W.**
On the suitability of Innovar, a neuroleptic analgesic, for cardiovascular experiments
RICHARD W. BRILL and DAVID R. JONES 1184
- Brooks, V.B.**
Comment: On functions of the "cerebellar circuit" in movement control
V.B. BROOKS 776
- Brown, J.C.**
Gastric inhibitory polypeptide stimulated secretion of somatostatinlike immunoreactivity from the stomach: inhibition by acetylcholine or vagal stimulation
C.H.S. MCINTOSH, R.A. PEDERSON, H. KOOP, and J.C. BROWN 468
- Bruce, I.C.**
Comment: A schema for the interactions between motor programs and sensory input
W.G. TATTON and I.C. BRUCE 691
- Burka, J.F.**
A comparison of antigen-induced and calcium ionophore A23187 induced contraction of isolated guinea pig trachea
JOHN F. BURKA and NIGEL A.M. PATERSON 1031
- Burnham, W.M.**
Saturable binding of [³H]phenytoin to rat brain membrane fraction
W.M. BURNHAM, L. SPERO, M.M. OKAZAKI, and B.K. MADRAS 402
- Burnstock, G.**
Tetrodotoxin-resistant release of ATP from guinea-pig taenia coli and vas deferens during electrical field stimulation in the presence of luciferin-luciferase
THOMAS WHITE, PAMELA POTTER, CATHERINE MOODY, and GEOFFREY BURNSTOCK 1094
- Bustamante, J.O.**
Single cells from adult mammalian heart: isolation procedure and preliminary electrophysiological studies
J. OMAR BUSTAMANTE, TOSHIFUMI WATANABE, and TERENCE F. McDONALD 907
- Caillé, J.-P.**
Efflux de ³⁶Cl et distribution du Cl dans le muscle papillaire du lapin, effet de l'ouabaïne
JEAN-PIERRE CAILLÉ 794
- Calaresu, F.R.**
Altered concentration of catecholamines in the hypothalamus of the rat after renal denervation
FRANCO R. CALARESU and JOHN CIRIELLO 1274
- Cameron, K.D.**
Effect of disopyramide and disobutamide on conduction in perfused rabbit hearts
PETER E. DRESEL and KEITH D. CAMERON 1192
- Carlen, P.L.**
Effects of low concentrations of ethanol on CA1 hippocampal neurons *in vitro*
D. DURAND, W.A. CORRIGALL, P. KUJTAN, and P.L. CARLEN 979
- Carro-Ciampi, G.**
Distribution of serum paraoxon hydrolyzing activities in a Canadian population
GIOVANNA CARRO-CIAMPI, DESZO KADAR, and WERNER KALOW 904
- Carson, G.D.**
Maternal steroid changes after fetal death until delivery of the dead sheep fetus
GEORGE D. CARSON and JOHN R.G. CHALLIS 168
- Carter, S.A.**
The effect of age on the unfolding of elastin lamellae and collagen fibers with stretch in human carotid arteries
ZENON J. SAMILA and STEFAN A. CARTER 1050
- Challis, J.R.G.**
Maternal steroid changes after fetal death until delivery of the dead sheep fetus
GEORGE D. CARSON and JOHN R.G. CHALLIS 168
- Challis, J.R.G.**
Short-term fluctuations in the concentration of cortisol and progesterone in fetal plasma, maternal plasma, and amniotic and allantoic fluids from sheep during late pregnancy
J.R.G. CHALLIS, J.E. PATRICK, JILL CROSS, J. WORKEWYCH, E. MANCHESTER, and S. POWER 261
- Challis, J.R.G.**
Fetal and maternal estrogen concentrations throughout pregnancy in the sheep
JOHN R.G. CHALLIS and JOHN E. PATRICK 970
- Chan, J.S.D.**
Detection from rat pituitary of β -lipotropin and materials containing opiate-like activity by combined enzymatic radioreceptor assay
J.S.D. CHAN, N.G. SEIDAH, M. IKEDA, J. GUTKOWSKA, R. BOUCHER, J. GENEST, and M. CHRÉTIEN 811
- Chandler, S.H.**
Evidence for pattern generator control of the effects of spindle afferent input during rhythmical jaw movements
LOUIS J. GOLDBERG and SCOTT H. CHANDLER 707
- Chapler, C.K.**
Peripheral vascular responses during acute anemia
C.K. CHAPLER, W.N. STAINSBY, and M.A. LILLIE 102
- Chauvelot, L.**
Stimulus-secretion coupling in exocrine pancreas: possible role of calmodulin
SEYMOUR HEISLER, LAURENCE CHAUVELOT, DIANE DESJARDINS, CHRISTINE NOEL, HERMAN LAMBERT, and LOUISE DESY-AUDET 994

- Chen, C.B.**
Implications of the finding of calcium carbonate in rabbit urine with respect to renal acidification
S.-C. TAM, M.B. GOLDSTEIN, C.B. CHEN, M.L. HALPERIN, and B.J. STINEBAUGH 800
- Chiu, A.**
Multiple binding sites for [³H]clonidine and [³H]WB-4101 in rat brain
PNINA WEINREICH, ANDREW CHIU, JERRY WARSH, and PHILIP SEEMAN 1170
- Cho, C.H.**
Migration of *Hymenolepis diminuta* (Cestoda) and changes in 5-HT (serotonin) levels in the rat host following parenteral and oral 5-HT administration
D.F. METTRICK and C.H. CHO 281
- Chong, C.K.**
Cardiac a trial factor—an endogenous diuretic?
H. SONNENBERG, C.K. CHONG, and A.T. VERESS 1278
- Chrétien, M.**
Endorphines; structure, rôles et biogénèse
M. CHRÉTIEN, N.G. SEIDAH et H. SCHERRER 413
- Chrétien, M.**
Detection from rat pituitary of β -lipotropin and materials containing opiatelike activity by combined enzymatic radioreceptor assay
J.S.D. CHAN, N.G. SEIDAH, M. IKEDA, J. GUTKOWSKA, R. BOUCHER, J. GENEST, and M. CHRÉTIEN 811
- Christopherson, R.J.**
Effects of adrenaline and noradrenaline on the heat production of warm- and cold-acclimated sheep
A.D. GRAHAM and R.J. CHRISTOPHERSON 985
- Ciriello, J.**
Altered concentration of catecholamines in the hypothalamus of the rat after renal denervation
FRANCO R. CALARESU and JOHN CIRIELLO 1274
- Clanachan, A.S.**
Antagonism of presynaptic adenosine receptors by theophylline 9- β -D-ribose and 8-phenyltheophylline
A.S. CLANACHAN 603
- Clement, J.G.**
BaCl₂-induced contractions in the guinea pig ileum longitudinal muscle: role of presynaptic release of neurotransmitters and Ca²⁺ translocation in the postsynaptic membrane
JOHN G. CLEMENT 541
- Clement, J.G.**
Methylxanthines antagonize adenosine but not morphine inhibition in guinea pig ileum
CATHERINE A. GALLANT and JOHN G. CLEMENT 886
- Cohen, M.I.**
Pulmonary afferent and central influences on respiratory phase-switching in the cat
MORTON I. COHEN 675
- Cole, S.P.C.**
Effects of porphyrin-inducing drugs on ferrochelatase activity in isolated mouse hepatocytes
SUSAN P.C. COLE, THOMAS E. MASSEY, GERALD S. MARKS, and WILLIAM J. RACZ 1155
- Collins, S.M.**
Initiation of migrating myoelectric complexes in human subjects: role of duodenal acidification and plasma motilin
E.E. DANIEL, J.E.T. FOX, S.M. COLLINS, T.D. LEWIS, M. MEGHJI, and N.S. TRACK 173
- Collins, S.M.**
Changes in plasma motilin concentration in response to manipulation of intragastric and intraduodenal contents in man
STEPHEN M. COLLINS, TERENCE D. LEWIS, JO-ANN E.T. FOX, NORMAN S. TRACK, MOHAMED M. MEGHJI, and E.E. DANIEL 188
- Commissiong, J.W.**
Cyclobenzaprine: a possible mechanism of action for its muscle relaxant effect
JOHN W. COMMISSIONG, FAROUK KAROUM, RHODERICK J. REIFFENSTEIN, and NORTON H. NEFF 37
- Cook, R.A.**
Central and peripheral adaptations of the gas transport system to one-leg training
S.G. THOMAS, D.A. CUNNINGHAM, M.J. PLYLEY, D.R. BOUGHNER, and R.A. COOK 1146
- Coon, R.L.**
Segmental ventricular adjustments to brief periods of ischemia in the dog
Z.J. BOSNJAK, J.L. SEAGARD, E.J. ZUPERKU, R.L. COON, H.M. SINGH, V.S. BAMRAH, and J.P. KAMPINE 287
- Cooper, G.R.**
Somatostatin inhibits prolactin secretion in the estradiol primed male rat
G.R. COOPER and S.H. SHIN 1082
- Cooper, K.E.**
Evidence of environmental influence on the development of thermoregulation in the rat
A.V. FERGUSON, W.L. VEALE, and K.E. COOPER 91
- Cooper, K.E.**
Effect of hemorrhage on fever: the putative role of vasopressin
N.W. KASTING, W.L. VEALE, and K.E. COOPER 324
- Cooper, K.E.**
Age-related differences in the febrile response of the New Zealand White rabbit to endotoxin
A.V. FERGUSON, W.L. VEALE, and K.E. COOPER 613
- Cooper, K.E.**
Expired air volumes of males and females during cold water immersion
T.J. MALKINSON, S. MARTIN, P. SIMPER, and K.E. COOPER 843
- Cooper, P.D.**
Variability and temperature dependence of the velocity of retrograde particle transport in myelinated axons
RICHARD S. SMITH and PAUL D. COOPER 857

- Corrigall, W.A.**
Effects of low concentrations of ethanol on CA1 hippocampal neurons *in vitro*
D. DURAND, W.A. CORRIGALL, P. KUJTAN, and P.L. CARLEN 979
- Côté, I.**
Free fatty acids as a determinant of myocardial oxygen consumption: a caveat
GILLES R. DAGENAI, JACQUES R. ROULEAU, and ISABELLE CÔTÉ 806
- Côté, M.G.**
Influence of vitamin D₃ status, phenobarbital, and diphenylhydantoin treatment on the plasma 25-hydroxyvitamin D₃ concentrations in the rat
MARIELLE GASCON-BARRÉ, EDGARD E. DELVIN, FRANCIS H. GLORIEUX, and MICHEL G. CÔTÉ 1073
- Coutts, R.T.**
The effects of cofactor and species differences on the *in vitro* metabolism of propiophenone and phenylacetone
R.T. COUTTS, D.B. PRELUSKY, and G.R. JONES 195
- Couture, R.**
Inactivation of substance P and its C-terminal fragments in rat plasma and its inhibition by Captopril
R. COUTURE and D. REGOLI 621
- Couture, R.**
Peptides and the human colon: an *in vitro* pharmacological study
R. COUTURE, J. MIZRAHI, D. REGOLI, and G. DEVROEDE 957
- Crankshaw, J.**
Effect of digitonin on rat myometrium subcellular membrane fractions
A.K. GROVER, C.Y. KWAN, J. CRANKSHAW, and E.E. DANIEL 1128
- Crawford, R.D.**
Brain norepinephrine, dopamine, and 5-hydroxytryptamine concentration abnormalities and their role in the high seizure susceptibility of epileptic chickens
D.D. JOHNSON, A.T. JAJU, L. NESS, J.S. RICHARDSON, and R.D. CRAWFORD 144
- Creutzfeldt, W.**
Somatostatin and gastrin release into the gastric lumen in rats
H. KOOP, G. SIMSON, C. MCINTOSH, R.A. BEDELL, R. ARNOLD, and W. CREUTZFELDT 574
- Cross, J.**
Short-term fluctuations in the concentration of cortisol and progesterone in fetal plasma, maternal plasma, and amniotic and allantoic fluids from sheep during late pregnancy
J.R.G. CHALLIS, J.E. PATRICK, JILL CROSS, J. WORKEWYCH, E. MANCHESTER, and S. POWER 261
- Cunningham, D.A.**
Central and peripheral adaptations of the gas transport system to one-leg training
S.G. THOMAS, D.A. CUNNINGHAM, M.J. PLYLEY, D.R. BOUGHNER, and R.A. COOK 1146
- Dagenais, G.R.**
Free fatty acids as a determinant of myocardial oxygen consumption: a caveat
GILLES R. DAGENAI, JACQUES R. ROULEAU, and ISABELLE CÔTÉ 806
- Daniel, E.E.**
Initiation of migrating myoelectric complexes in human subjects: role of duodenal acidification and plasma motilin
E.E. DANIEL, J.E.T. FOX, S.M. COLLINS, T.D. LEWIS, M. MEGHJI, and N.S. TRACK 173
- Daniel, E.E.**
Relationship of plasma motilin concentration to fat ingestion, duodenal acidification and alkalinization, and migrating motor complexes in dogs
J.E.T. FOX, N.S. TRACK, and E.E. DANIEL 180
- Daniel, E.E.**
Changes in plasma motilin concentration in response to manipulation of intragastric and intraduodenal contents in man
STEPHEN M. COLLINS, TERENCE D. LEWIS, JO-ANN E.T. FOX, NORMAN S. TRACK, MOHAMED M. MEGHJI, and E.E. DANIEL 188
- Daniel, E.E.**
Effect of digitonin on rat myometrium subcellular membrane fractions
A.K. GROVER, C.Y. KWAN, J. CRANKSHAW, and E.E. DANIEL 1128
- Daniel, E.E.**
Thallos ion activation of *p*-nitrophenylphosphatase of rat myometrium plasma membrane
A.K. GROVER, M. FREDERICKSON, and E.E. DANIEL 1180
- Daniel, E.E.**
Isolation and characterization of subcellular membranes from canine stomach smooth muscle
Y. SAKAI, J. MCLEAN, A.K. GROVER, R.E. GARFIELD, J.E.T. FOX, and E.E. DANIEL 1260
- Davison, J.S.**
Dibutylryl cyclic GMP, a competitive inhibitor of cholecystokinin/pancreozymin and related peptides in the gallbladder and ileum
J.S. DAVISON and A. NAJAFI-FARASHAH 1100
- de Champlain, J.**
Liberation of cyclic AMP and catecholamine from the heart during left stellate stimulation in the anesthetized dog
M. LAVALLÉE, C. LAURENCIN, J. DE CHAMPLAIN, and R.A. NADEAU 533
- Delvin, E.E.**
Influence of vitamin D₃ status, phenobarbital, and diphenylhydantoin treatment on the plasma 25-hydroxyvitamin D₃ concentrations in the rat
MARIELLE GASCON-BARRÉ, EDGARD E. DELVIN, FRANCIS H. GLORIEUX, and MICHEL G. CÔTÉ 1073
- Deshais, Y.**
Protein synthesis, amino acid uptake, and pools during isoproterenol-induced hypertrophy of the rat heart and tibialis muscle
YVES DESHAIES, JOAN WILLEMOT, and JACQUES LEBLANC 113

- Desjardins, D.**
Stimulus-secretion coupling in exocrine pancreas: possible role of calmodulin
SEYMOUR HEISLER, LAURENCE CHAUVELOT,
DIANE DESJARDINS, CHRISTINE NOEL, HERMAN LAMBERT, and
LOUISE DESY-AUDET 994
- Desjardins-Giasson, S.**
Renin substrate in rat mesenteric artery
SUZANNE DESJARDINS-GIASSON, JOLANTA GUTKOWSKA,
RAUL GARCIA, and JACQUES GENEST 528
- Desy-Audet, L.**
Stimulus-secretion coupling in exocrine pancreas: possible role of calmodulin
SEYMOUR HEISLER, LAURENCE CHAUVELOT,
DIANE DESJARDINS, CHRISTINE NOEL, HERMAN LAMBERT, and
LOUISE DESY-AUDET 994
- Devroede, G.**
Peptides and the human colon: an *in vitro* pharmacological study
R. COUTURE, J. MIZRAHI, D. REGOLI, and
G. DEVROEDE 957
- Dhalla, N.S.**
Effect of prostaglandins on rat heart sarcolemmal ATPases
M. KARMAZYN, B.S. TUANA, and N.S. DHALLA 1122
- Downie, J.W.**
Prostaglandin involvement in contractions evoked in rabbit detrusor by field stimulation and by adenosine 5'-triphosphate
J.W. DOWNIE and C. LARSSON 253
- Downie, J.W.**
Antagonism of calcium-induced contraction in potassium-depolarized rabbit detrusor muscle strips by dicyclomine hydrochloride and rociverine
J.W. DOWNIE and R.P. MCGUIRE 853
- Dresel, P.E.**
Effect of disopyramide and disobutamide on conduction in perfused rabbit hearts
PETER E. DRESEL and KEITH D. CAMERON 1192
- Dryden, W.F.**
Different actions of calcium channel blocking agents on resting membrane conductance in developing skeletal muscle
C.M. THOMSON and W.F. DRYDEN 335
- Dubas, T.C.**
Brain distribution and kinetics of desipramine in the rat
P.D. HRDINA and T.C. DUBAS 163
- Duffin, J.**
The regularity and interrelation of respiratory and cardiac rhythms at rest and during exercise
J. DUFFIN and K. GRAHAM 84
- Duran, M.-A.**
Maintenance of glomerulotubular balance for bicarbonate during carbonic anhydrase inhibition in the dog
ANDRÉ GOUGOUX, MARIA-ANGELICA DURAN, GUY LEMIEUX, and PATRICK VINAY 225
- Durand, D.**
Effects of low concentrations of ethanol on CA1 hippocampal neurons *in vitro*
D. DURAND, W.A. CORRIGALL, P. KUJTAN, and
P.L. CARLEN 979
- Eastin, W.C., Jr.**
Effects of crude oil ingestion on avian intestinal function
WILLIAM C. EASTIN, JR., and HELEN C. MURRAY 1063
- Elliott, C.**
Synthesis and assay for activity of a proposed anorexogenic agent, L-pyroglutamyl-L-histidyl-glycine
LORENZO G. BAUCE, CRYSTAL ELLIOTT, RHIANNON HUGHES, and H. JOSEPH GOREN 88
- Elliott, J.**
Opiatelic actions of eseroline, an eserine derivative
K. JHAMANDAS, J. ELLIOTT, and M. SUTAK 307
- Endrenyi, L.**
Adrenergic activity in arteries of spontaneously hypertensive rats
THOMAS T. ZSOTÉR, STEVE SIRKO, CAMILLE WOLCHINSKY, DEZSO KADAR, and LASZLO ENDRENYI 1104
- Etzel, K.**
Catecholamines and the cephalic phase of gastric secretion
K. ETZEL, J. WISECARVER, and D.F. MAGEE 1189
- Evarts, E.V.**
Transcortical reflexes and servo control of movement
EDWARD V. EVARTS and CHRISTOPH FROMM 757
- Falk, J.E.**
Aminopyrine metabolism in cryopreserved isolated rat hepatocytes
T. INABA, L. MAKOWKA, L. ROTSTEIN, W.A. MAHON, R.E. FALK, J.E. FALK, and M.J. PHILLIPS 408
- Falk, R.E.**
Aminopyrine metabolism in cryopreserved isolated rat hepatocytes
T. INABA, L. MAKOWKA, L. ROTSTEIN, W.A. MAHON, R.E. FALK, J.E. FALK, and M.J. PHILLIPS 408
- Ferguson, A.V.**
Evidence of environmental influence on the development of thermoregulation in the rat
A.V. FERGUSON, W.L. VEALE, and K.E. COOPER 91
- Ferguson, A.V.**
Age-related differences in the febrile response of the New Zealand White rabbit to endotoxin
A.V. FERGUSON, W.L. VEALE, and K.E. COOPER 613
- Fernández-Pardal, J.**
Metabolism of [³H]noradrenaline by the isolated rat uterus
JULIO FERNÁNDEZ-PARDAL, MARTHA F. GIMENO, and ALVARO L. GIMENO 1245
- Flecknell, P.A.**
Steady state glucose kinetics and their relation to plasma glucose concentration in the premature and full term neonatal piglet
P.A. FLECKNELL, R. WOOTTON, M. JOHN, and J.P. ROYSTON 1069

- Flynn, J.T.**
Phospholipase A₂ stimulated release of prostanoids from the isolated, perfused rabbit liver: implications in regional cellular injury
JOHN T. FLYNN, JOSEPH M. HENRY, and SANDRA PERKOWSKI 1268
- Fong, C.N.**
Intracellular Cl activity, Cl binding, and ³⁶Cl efflux in rabbit papillary muscle
C.N. FONG and J.A.M. HINKE 479
- Forssberg, H.**
Peripheral feedback mechanisms acting on the central pattern generators for locomotion in fish and cat
O. ANDERSSON, H. FORSSBERG, S. GRILLNER, and P. WALLÉN 713
- Fox, J.-A.E.T.**
Changes in plasma motilin concentration in response to manipulation of intragastric and intraduodenal contents in man
STEPHEN M. COLLINS, TERENCE D. LEWIS, JO-ANN E.T. FOX, NORMAN S. TRACK, MOHAMED M. MEGHJI, and E.E. DANIEL 188
- Fox, J.E.T.**
Initiation of migrating myoelectric complexes in human subjects: role of duodenal acidification and plasma motilin
E.E. DANIEL, J.E.T. FOX, S.M. COLLINS, T.D. LEWIS, M. MEGHJI, and N.S. TRACK 173
- Fox, J.E.T.**
Relationship of plasma motilin concentration to fat ingestion, duodenal acidification and alkalization, and migrating motor complexes in dogs
J.E.T. FOX, N.S. TRACK, and E.E. DANIEL 180
- Fox, J.E.T.**
Isolation and characterization of subcellular membranes from canine stomach smooth muscle
Y. SAKAI, J. MCLEAN, A.K. GROVER, R.E. GARFIELD, J.E.T. FOX, and E.E. DANIEL 1260
- Frederickson, M.**
Thallous ion activation of *p*-nitrophenylphosphatase of rat myometrium plasma membrane
A.K. GROVER, M. FREDERICKSON, and E.E. DANIEL 1180
- Fregly, M.J.**
Thermoregulatory responses of tailed and tailless rats to isoproterenol
DONALD E. SPIERS, CHRISTOPHER C. BARNEY, and MELVIN J. FREGLEY 847
- Freund, K.**
Inhibition of the *n*-formylmethionyl-leucyl-phenylalanine induced respiratory burst in human neutrophils by adrenergic agonists and prostaglandins of the E series
KENNETH WONG and KAREN FREUND 915
- Frew, R.**
Ketamine potentiates catecholamine responses of vascular smooth muscle by inhibition of extraneuronal uptake
PAUL M. LUNDY and ROBERT FREW 520
- Fromm, C.**
Transcortical reflexes and servo control of movement
EDWARD V. EVARTS and CHRISTOPH FROMM 757
- Furuyama, S.**
Cyclic nucleotide phosphodiesterase in rat parotid gland
NORIKO YOKOYAMA, MAYUMI ABE, and SHUNSUKE FURUYAMA 293
- Gallant, C.A.**
Methylxanthines antagonize adenosine but not morphine inhibition in guinea pig ileum
CATHERINE A. GALLANT and JOHN G. CLEMENT 886
- Garcia, R.**
Renin substrate in rat mesenteric artery
SUZANNE DESJARDINS-GIASSON, JOLANTA GUTKOWSKA, RAUL GARCIA, and JACQUES GENEST 528
- Garcia, R.**
Effects of tonin on the response to norepinephrine by the aortic strip of the hypertensive rat
R. GARCIA, E.L. SCHIFFRIN, G. THIBAUT, R. BOUCHER, and J. GENEST 790
- Garcia, R.**
Pressor effect of tonin in anephric animals
E.L. SCHIFFRIN, R. GARCIA, J. GUTKOWSKA, R. BOUCHER, and J. GENEST 864
- Garfield, R.E.**
Isolation and characterization of subcellular membranes from canine stomach smooth muscle
Y. SAKAI, J. MCLEAN, A.K. GROVER, R.E. GARFIELD, J.E.T. FOX, and E.E. DANIEL 1260
- Gascon-Barré, M.**
Influence of vitamin D₃ status, phenobarbital, and diphenylhydantoin treatment on the plasma 25-hydroxyvitamin D₃ concentrations in the rat
MARIELLE GASCON-BARRÉ, EDGARD E. DELVIN, FRANCIS H. GLORIEUX, and MICHEL G. CÔTÉ 1073
- Gaudreau, P.**
Pharmacological studies of kinins in venous smooth muscles
P. GAUDREAU, J. BARABÉ, S. ST-PIERRE, and D. REGOLI 371
- Gaudreau, P.**
Structure-activity study of kinins in vascular smooth muscles
P. GAUDREAU, J. BARABÉ, S. ST-PIERRE, and D. REGOLI 380
- Gaultier, C.**
Hering-Breuer inflation reflex in young and adult mammals
C. GAULTIER and J.P. MORTOLA 1017
- Gauthier, L.**
Stimulus-response relationships during locomotion
S. ROSSIGNOL, C. JULIEN, and L. GAUTHIER 667
- Gauthier, P.**
Pressor responses and adrenomedullary catecholamine release during brain stimulation in the rat
PIERRE GAUTHIER 485

- Gendreau, M.**
The degradation of bradykinin (BK) and of des-Arg⁹-BK in plasma
F. MARCEAU, M. GENDREAU, J. BARABÉ, S. ST-PIERRE, and D. REGOLI 131
- Genest, J.**
Renin substrate in rat mesenteric artery
SUZANNE DESJARDINS-GIASSON, JOLANTA GUTKOWSKA, RAUL GARCIA, and JACQUES GENEST 528
- Genest, J.**
Effects of tonin on the response to norepinephrine by the aortic strip of the hypertensive rat
R. GARCIA, E.L. SCHIFFRIN, G. THIBAUT, R. BOUCHER, and J. GENEST 790
- Genest, J.**
Detection from rat pituitary of β -lipotropin and materials containing opiatelike activity by combined enzymatic radioreceptor assay
J.S.D. CHAN, N.G. SEIDAH, M. IKEDA, J. GUTKOWSKA, R. BOUCHER, J. GENEST, and M. CHRÉTIEN 811
- Genest, J.**
Pressor effect of tonin in anephric animals
E.L. SCHIFFRIN, R. GARCIA, J. GUTKOWSKA, R. BOUCHER, and J. GENEST 864
- Gerald, M.C.**
The effect of 2-n-propyl-3-dimethylamino-5,6-methylenedioxynedene on caffeine-induced contractures of skeletal muscle
RALF G. RAHWAN and MICHAEL C. GERALD 617
- Gimeno, A.L.**
Metabolism of [³H]noradrenaline by the isolated rat uterus
JULIO FERNÁNDEZ-PARDAL, MARTHA F. GIMENO, and ALVARO L. GIMENO 1245
- Gimeno, M.F.**
Metabolism of [³H]noradrenaline by the isolated rat uterus
JULIO FERNÁNDEZ-PARDAL, MARTHA F. GIMENO, and ALVARO L. GIMENO 1245
- Girard, G.**
Distribution of amylase and chymotrypsin in four regions of the rat pancreas
ADRIEN R. BEAUDOIN, PIERRE ST-JEAN, and GINETTE GIRARD 884
- Glorieux, F.H.**
Influence of vitamin D₃ status, phenobarbital, and diphenylhydantoin treatment on the plasma 25-hydroxyvitamin D₃ concentrations in the rat
MARIELLE GASCON-BARRÉ, EDGARD E. DELVIN, FRANCIS H. GLORIEUX, and MICHEL G. CÔTÉ 1073
- Godin, J.R.P.**
Triazene metabolism. I. The effect of substituents in the aryl group on the kinetics of enzyme-catalysed *N*-demethylation of 1-aryl-3,3-dimethyltriazenes
JAMES R.P. GODIN, KEITH VAUGHAN, and KENNETH W. RENTON 1234
- Godin, J.R.P.**
Triazene metabolism. II. Transportability and enzyme inhibitory characteristics of metabolites of antitumor dimethyltriazenes
JAMES R.P. GODIN, GERARD LLANOS, KEITH VAUGHAN, and KENNETH W. RENTON 1239
- Goldberg, L.J.**
Evidence for pattern generator control of the effects of spindle afferent input during rhythmical jaw movements
LOUIS J. GOLDBERG and SCOTT H. CHANDLER 707
- Goldenberg, E.**
Enkephalin-induced inhibition of the isolated rat ileum is not blocked by naloxone
K. NAKATSU, E. GOLDBERG, D. PENNING, and K. JHAMANDAS 901
- Goldstein, M.B.**
Effect of mineralocorticoids on collecting duct hydrogen ion secretion in the rabbit
W.L.M. ROBSON, M.L. HALPERIN, B.J. STINEBAUGH, and M.B. GOLDSTEIN 235
- Goldstein, M.B.**
Implications of the finding of calcium carbonate in rabbit urine with respect to renal acidification
S.-C. TAM, M.B. GOLDSTEIN, C.B. CHEN, M.L. HALPERIN, and B.J. STINEBAUGH 800
- Gordon, T.**
Classifying sensory patterns and their effects on locomotion and tremor
R.B. STEIN, T. GORDON, M.N. OĞUZTÖRELI, and R.G. LEE 645
- Goren, H.J.**
Synthesis and assay for activity of a proposed anorexogenic agent, L-pyroglyutamyl-L-histidyl-glycine
LORENZO G. BAUCE, CRYSTAL ELLIOTT, RHIANNON HUGHES, and H. JOSEPH GOREN 88
- Gougoux, A.**
Maintenance of glomerulotubular balance for bicarbonate during carbonic anhydrase inhibition in the dog
ANDRÉ GOUGOUX, MARIA-ANGELICA DURAN, GUY LEMIEUX, and PATRICK VINAY 225
- Graham, A.D.**
Effects of adrenaline and noradrenaline on the heat production of warm- and cold-acclimated sheep
A.D. GRAHAM and R.J. CHRISTOPHERSON 985
- Graham, K.**
The regularity and interrelation of respiratory and cardiac rhythms at rest and during exercise
J. DUFFIN and K. GRAHAM 84
- Granger, D.N.**
Effects of bradykinin on intestinal transcapillary fluid exchange
J.A. BARROWMAN, M.A. PERRY, P.R. KVIETYS, M. ULRICH, and D.N. GRANGER 786

- Grenon, G.**
 Baclofen modifies via the release of monoamines the synaptic depression, frequency facilitation, and posttetanic potentiation observed at an identified cholinergic synapse of *Aplysia californica*
 E. PHILIPPE, G. GRENON, and J.P. TREMBLAY 244
- Grillner, S.**
 Peripheral feedback mechanisms acting on the central pattern generators for locomotion in fish and cat
 O. ANDERSSON, H. FORSSBERG, S. GRILLNER, and P. WALLÉN 713
- Groom, A.C.**
 Fast transit of red cells and plasma in contracted versus relaxed spleens
 M.J. LEVESQUE and A.C. GROOM 53
- Grover, A.K.**
 Effect of digitonin on rat myometrium subcellular membrane fractions
 A.K. GROVER, C.Y. KWAN, J. CRANKSHAW, and E.E. DANIEL 1128
- Grover, A.K.**
 Thallous ion activation of *p*-nitrophenylphosphatase of rat myometrium plasma membrane
 A.K. GROVER, M. FREDERICKSON, and E.E. DANIEL 1180
- Grover, A.K.**
 Isolation and characterization of subcellular membranes from canine stomach smooth muscle
 Y. SAKAI, J. MCLEAN, A.K. GROVER, R.E. GARFIELD, J.E.T. FOX, and E.E. DANIEL 1260
- Grovestine, D.**
 A simple, inexpensive filtration device suitable for neurotransmitter receptor binding studies in brain tissue
 M. WILKINSON and DALE GROVESTINE 504
- Gruetter, C.A.**
 Methylene blue inhibits coronary arterial relaxation and guanylate cyclase activation by nitroglycerin, sodium nitrite, and amyl nitrite
 CARL A. GRUETTER, PHILIP J. KADOWITZ, and LOUIS J. IGNARRO 150
- Gruetter, C.A.**
 Contractile effects of 5-hydroxytryptamine in isolated intrapulmonary arteries and veins
 CARL A. GRUETTER, LOUIS J. IGNARRO, ALBERT L. HYMAN, and PHILIP J. KADOWITZ 157
- Guedes, R.C.A.**
 Synaptic transmission in suprasylvian visual cortex is reduced by excitatory amino acid antagonists
 T.P. HICKS and R.C.A. GUEDES 893
- Gutkowska, J.**
 Renin substrate in rat mesenteric artery
 SUZANNE DESJARDINS-GIASSON, JOLANTA GUTKOWSKA, RAUL GARCIA, and JACQUES GENEST 528
- Gutkowska, J.**
 Detection from rat pituitary of β -lipotropin and materials containing opiatelike activity by combined enzymatic radioreceptor assay
 J.S.D. CHAN, N.G. SEIDAH, M. IKEDA, J. GUTKOWSKA, R. BOUCHER, J. GENEST, and M. CHRÉTIEEN 811
- Gutkowska, J.**
 Pressor effect of tonin in anephric animals
 E.L. SCHIFFRIN, R. GARCIA, J. GUTKOWSKA, R. BOUCHER, and J. GENEST 864
- Guyton, A.C.**
 The Ninth J.A.F. Stevenson Memorial Lecture. The many roles of the kidney in arterial pressure control and hypertension
 ARTHUR C. GUYTON, JOHN E. HALL, THOMAS E. LOHMEIER, THOMAS E. JACKSON, and R. DAVIS MANNING, JR. 513
- Hahn, P.**
 Brown adipose tissue and carnitine in cold-adapted rats
 P. HAHN, C. LAURY, and R. PORTET 351
- Hahn, P.**
 The effect of starvation on obese mice
 P. HAHN and J.P. SKALA 355
- Hakui, N.**
 The effect of rectal administration of insulin on the short-term treatment of alloxan-diabetic dogs
 YOSHIMITSU YAMASAKI, MOTOAKI SHICHIRI, RYUZO KAWAMORI, TOYOHICO MORISHIMA, NOBUYOSHI HAKUI, TOSHIHIKO YAGI, and HIROSHI ABE 1
- Hall, J.E.**
 The Ninth J.A.F. Stevenson Memorial Lecture. The many roles of the kidney in arterial pressure control and hypertension
 ARTHUR C. GUYTON, JOHN E. HALL, THOMAS E. LOHMEIER, THOMAS E. JACKSON, and R. DAVIS MANNING, JR. 513
- Hall, S.E.H.**
 A problem associated with the measurement of ketone body kinetics in vivo
 SUSAN E.H. HALL and T.M. BOLTON 1178
- Halperin, M.L.**
 Effect of mineralocorticoids on collecting duct hydrogen ion secretion in the rabbit
 W.L.M. ROBSON, M.L. HALPERIN, B.J. STINEBAUGH, and M.B. GOLDSTEIN 235
- Halperin, M.L.**
 Implications of the finding of calcium carbonate in rabbit urine with respect to renal acidification
 S.-C. TAM, M.B. GOLDSTEIN, C.B. CHEN, M.L. HALPERIN, and B.J. STINEBAUGH 800
- Harris, W.H.**
 Placental transfer of indomethacin in the rabbit and sheep
 W.H. HARRIS and G.R. VAN PETTEN 342
- Hatakeyama, K.**
 Lethal factor in the male mouse submandibular gland
 KEIKO HATAKEYAMA, MASAHICO HIRAMATSU, and NAOMI MINAMI 1134

- Haubrich, D.R.**
2-Chloroadenosine inhibits brain acetylcholine turnover in vivo
DEAN R. HAUBRICH, MICHAEL WILLIAMS, and
GEORGE G. YARBROUGH 1196
- Heisler, S.**
Stimulus-secretion coupling in exocrine pancreas: possible role
of calmodulin
SEYMOUR HEISLER, LAURENCE CHAUVELOT,
DIANE DESJARDINS, CHRISTINE NOEL, HERMAN LAMBERT, and
LOUISE DESY-AUDET 994
- Henry, J.M.**
Phospholipase A₂ stimulated release of prostanoids from the
isolated, perfused rabbit liver: implications in regional cellular
injury
JOHN T. FLYNN, JOSEPH M. HENRY, and
SANDRA PERKOWSKI 1268
- Héroux, O.**
Different influences of two types of diets commonly used for rats
on a series of parameters related to the metabolism of central
serotonin and noradrenaline
OLIVER HÉROUX and ANDRÉE G. ROBERGE 108
- Hicks, T.P.**
Synaptic transmission in suprasylvian visual cortex is reduced by
excitatory amino acid antagonists
T.P. HICKS and R.C.A. GUEDES 893
- Hinke, J.A.M.**
Intracellular Cl activity, Cl binding, and ³⁶Cl efflux in rabbit
papillary muscle
C.N. FONG and J.A.M. HINKE 479
- Hinke, J.A.M.**
The influence of "nonmyoplasmic" sodium on the measured
value of the sodium efflux from barnacle muscle
M.R. MENARD and J.A.M. HINKE 1219
- Hiramatsu, M.**
Lethal factor in the male mouse submandibular gland
KEIKO HATAKEYAMA, MASAHICO HIRAMATSU, and
NAOMI MINAMI 1134
- Hollenberg, M.D.**
Human interferon for clinical trials: removal of pyrogen by a
simple two-step procedure
H. BORG, E. LUNDREN, M.D. HOLLENBERG, W.L. VEALE,
Y.H. TAN, and A. MCPHERSON 890
- Honrath, U.**
Effect of renal denervation, furosemide, and acute saline loading
on postobstructive diuresis in the rat
D.R. WILSON and U. HONRATH 59
- Hoover, D.J.**
Acetaldehyde concentration in rat blood and brain during the
calcium carbimide-ethanol interaction
D.J. HOOVER and J.F. BRIEN 65
- Hrdina, P.D.**
Brain distribution and kinetics of desipramine in the rat
P.D. HRDINA and T.C. DUBAS 163
- Hudson, R.W.**
The effects of androgens and estrogens on human prostatic cells
in culture
ROBERT W. HUDSON 949
- Huet, P.M.**
Effect of ethanol on hepatic blood flow in unanesthetized dogs
with chronic portal and hepatic vein catheterization
J.P. VILLENEUVE, G. POMIER, and P.M. HUET 598
- Huff, J.R.**
Interaction of putative anxiolytic agents with central adenosine
receptors
MICHAEL WILLIAMS, EDWIN A. RISLEY, and
JOEL R. HUFF 897
- Hughes, R.**
Synthesis and assay for activity of a proposed anorexogenic
agent, L-pyroglyutamyl-L-histidyl-glycine
LORENZO G. BAUCE, CRYSTAL ELLIOTT, RHIANNON HUGHES,
and H. JOSEPH GOREN 88
- Hughson, R.L.**
Effect of oral propranolol on the anaerobic threshold and max-
imum exercise performance in normal man
RICHARD L. HUGHSON and BARBARA J. MACFARLANE 567
- Hyman, A.L.**
Contractile effects of 5-hydroxytryptamine in isolated intrapul-
monary arteries and veins
CARL A. GRUETTER, LOUIS J. IGNARRO, ALBERT L. HYMAN,
and PHILIP J. KADOWITZ 157
- Ignarro, L.J.**
Methylene blue inhibits coronary arterial relaxation and guany-
late cyclase activation by nitroglycerin, sodium nitrite, and amyl
nitrite
CARL A. GRUETTER, PHILIP J. KADOWITZ, and
LOUIS J. IGNARRO 150
- Ignarro, L.J.**
Contractile effects of 5-hydroxytryptamine in isolated intrapul-
monary arteries and veins
CARL A. GRUETTER, LOUIS J. IGNARRO, ALBERT L. HYMAN,
and PHILIP J. KADOWITZ 157
- Ikeda, M.**
Detection from rat pituitary of β -lipotropin and materials
containing opiatelike activity by combined enzymatic radiorecep-
tor assay
J.S.D. CHAN, N.G. SEIDAH, M. IKEDA, J. GUTKOWSKA,
R. BOUCHER, J. GENEST, and M. CHRÉTIEN 811
- Inaba, T.**
Aminopyrine metabolism in cryopreserved isolated rat
hepatocytes
T. INABA, L. MAKOWKA, L. ROTSTEIN, W.A. MAHON,
R.E. FALK, J.E. FALK, and M.J. PHILLIPS 408
- Ivan, M.**
Distribution of radiomanganese in the rumen of sheep
M. IVAN 76

- Jackson, T.E.**
The Ninth J.A.F. Stevenson Memorial Lecture. The many roles of the kidney in arterial pressure control and hypertension
ARTHUR C. GUYTON, JOHN E. HALL, THOMAS E. LOHMEIER, THOMAS E. JACKSON, and R. DAVIS MANNING, JR. 513
- Jaju, A.T.**
Brain norepinephrine, dopamine, and 5-hydroxytryptamine concentration abnormalities and their role in the high seizure susceptibility of epileptic chickens
D.D. JOHNSON, A.T. JAJU, L. NESS, J.S. RICHARDSON, and R.D. CRAWFORD 144
- Jhamandas, K.**
Opiate-like actions of eseroline, an eserine derivative
K. JHAMANDAS, J. ELLIOTT, and M. SUTAK 307
- Jhamandas, K.**
Enkephalin-induced inhibition of the isolated rat ileum is not blocked by naloxone
K. NAKATSU, E. GOLDENBERG, D. PENNING, and K. JHAMANDAS 901
- Jiang, Z.-g.**
A comparison of the effects of flurazepam on γ -aminobutyric acid mediated depression of cerebellar and cerebral cortical neurons
ZHI-GEN JIANG 595
- John, M.**
Steady state glucose kinetics and their relation to plasma glucose concentration in the premature and full term neonatal piglet
P.A. FLECKNELL, R. WOOTTON, M. JOHN, and J.P. ROYSTON 1069
- Johnson, D.D.**
Brain norepinephrine, dopamine, and 5-hydroxytryptamine concentration abnormalities and their role in the high seizure susceptibility of epileptic chickens
D.D. JOHNSON, A.T. JAJU, L. NESS, J.S. RICHARDSON, and R.D. CRAWFORD 144
- Jolicœur, L.**
Effects of gestation and lactation on rat gastric fundus
L. JOLICOEUR, J. ASSELIN, and J. MORRISSET 96
- Jones, D.R.**
On the suitability of Innovar, a neuroleptic analgesic, for cardiovascular experiments
RICHARD W. BRILL and DAVID R. JONES 1184
- Jones, G.R.**
The effects of cofactor and species differences on the *in vitro* metabolism of propiophenone and phenylacetone
R.T. COUTTS, D.B. PRELUSKY, and G.R. JONES 195
- Jones, R.S.G.**
High-affinity uptake of choline in slices of rat cerebral cortex: effects of antidepressants and anticholinergic drugs
R.S.G. JONES 392
- Jordan, L.M.**
Comment: Gating effects and constraints on the central pattern generators for rhythmic movements
LARRY M. JORDAN 727
- Joshi, D.P.**
Identification and specific blockade of histaminergic receptors in guinea pig vasa deferentia
DINESH P. JOSHI and SUBHASH C. VERMA 1089
- Julien, C.**
Stimulus-response relationships during locomotion
S. ROSSIGNOL, C. JULIEN, and I. GAUTHIER 667
- Kadar, D.**
Distribution of serum paraoxon hydrolyzing activities in a Canadian population
GIOVANNA CARRO-CIAMPI, DESZO KADAR, and WERNER KALOW 904
- Kadar, D.**
Adrenergic activity in arteries of spontaneously hypertensive rats
THOMAS T. ZSOTÉR, STEVE SIRKO, CAMILLE WOLCHINSKY, DESZO KADAR, and LASZLO ENDRENYI 1104
- Kadowitz, P.J.**
Methylene blue inhibits coronary arterial relaxation and guanylate cyclase activation by nitroglycerin, sodium nitrite, and amyl nitrite
CARL A. GRUETTER, PHILIP J. KADOWITZ, and LOUIS J. IGNARRO 150
- Kadowitz, P.J.**
Contractile effects of 5-hydroxytryptamine in isolated intrapulmonary arteries and veins
CARL A. GRUETTER, LOUIS J. IGNARRO, ALBERT L. HYMAN, and PHILIP J. KADOWITZ 157
- Kalow, W.**
Distribution of serum paraoxon hydrolyzing activities in a Canadian population
GIOVANNA CARRO-CIAMPI, DESZO KADAR, and WERNER KALOW 904
- Kampine, J.P.**
Segmental ventricular adjustments to brief periods of ischemia in the dog
Z.J. BOSNJAK, J.L. SEAGARD, E.J. ZUPERKU, R.L. COON, H.M. SINGH, V.S. BAMRAH, and J.P. KAMPINE 287
- Kan, W.O.**
Respiratory and cardiovascular responses to temperature changes in the perfused pulmonary arteries of the dog
J.R. LEDSOME, W.O. KAN, and C.P. BOLTER 493
- Kappagoda, C.T.**
Effect of changes in the red cell volume on the carbon dioxide titration curve *in vivo* in the rat
S. KAUFMAN and C.T. KAPPAGODA 500
- Kappagoda, C.T.**
Transducer properties of atrial receptors in the dog after 60 min of increased atrial pressure
C.T. KAPPAGODA and M. PADSHA 837
- Karmazyn, M.**
Effect of prostaglandins on rat heart sarcolemmal ATPases
M. KARMAZYN, B.S. TUANA, and N.S. DHALLA 1122

- Karoum, F.**
Cyclobenzaprine: a possible mechanism of action for its muscle relaxant effect
JOHN W. COMMISSIONG, FAROUK KAROUM, RHODERICK J. REIFFENSTEIN, and NORTON H. NEFF 37
- Kasting, N.W.**
Effect of hemorrhage on fever: the putative role of vasopressin
N.W. KASTING, W.L. VEALE, and K.E. COOPER 324
- Kaufman, S.**
Effect of changes in the red cell volume on the carbon dioxide titration curve *in vivo* in the rat
S. KAUFMAN and C.T. KAPPAGODA 500
- Kawamori, R.**
The effect of rectal administration of insulin on the short-term treatment of alloxan-diabetic dogs
YOSHIMITSU YAMASAKI, MOTOAKI SHICHIRI, RYUZO KAWAMORI, TOYOHICO MORISHIMA, NOBUYOSHI HAKUI, TOSHIHIKO YAGI, and HIROSHI ABE 1
- Kazumi, T.**
Insulin and glucagon in rats with islet cell tumors induced by small doses of streptozotocin
GEN YOSHINO, TSUTOMU KAZUMI, SOICHIRO MORITA, and SHIGEAKI BABA 818
- Keeler, R.**
Circulatory effects of acute chronic endotoxemia in rats
R. KEELER, ANAMARIA BARRIENTOS, and K. LEE 204
- Kelley, J.**
Renal acidification in the hypothyroid rat. Evaluation by urinary CO₂ tension
ULRICH F. MICHAEL, JAN KELLEY, LAURENCE A. MEEKS, and CARLOS A. VAAMONDE 273
- Klassen, G.A.**
Epicardial coronary venous pressure
J.A. ARMOUR and G.A. KLASSEN 1250
- Kline, R.L.**
Dietary linoleic acid and salt-induced hypertension
MURRAY C. MACDONALD, ROBERT L. KLINE, and GORDON J. MOGENSEN 872
- Knap, M.**
Pharmacological characterization of the vascular permeability-enhancing effects of kinins in the rabbit skin
F. MARCEAU, M. KNAP, and D. REGOLI 921
- Koop, H.**
Gastric inhibitory polypeptide stimulated secretion of somatostatin-like immunoreactivity from the stomach: inhibition by acetylcholine or vagal stimulation
C.H.S. MCINTOSH, R.A. PEDERSON, H. KOOP, and J.C. BROWN 468
- Koop, H.**
Somatostatin and gastrin release into the gastric lumen in rats
H. KOOP, G. SIMSON, C. MCINTOSH, R.A. BEDELL, R. ARNOLD, and W. CREUTZFELDT 574
- Krell, R.D.**
The effects of nucleotides on the response of the isolated guinea pig urinary bladder to nonadrenergic, noncholinergic nerve stimulation
P. LUKACSKO and R.D. KRELL 1199
- Krishnamurty, V.S.R.**
Dual influence of hydralazine on constrictor response to noradrenaline in isolated arterial smooth muscle
V.S.R. KRISHNAMURTY 1159
- Krnjević, K.**
Septo-hippocampal pathway modulates hippocampal activity by a cholinergic mechanism
K. KRNJEVIC and N. ROPERT 911
- Krnjević, K.**
Slow diffusion of Ca²⁺ in the rat's hippocampus
M.E. MORRIS and K. KRNJEVIC 1022
- Kubo, T.**
Cardiovascular responses to intracisternal administration of nicotine in rats
TAKAO KUBO and YOSHIMI MISU 615
- Kuchel, O.**
Platelet phenolsulfotransferase and catecholamines: physiological and pathological variations in humans
L. ABENHAIM, Y. ROMAIN, and O. KUCHEL 300
- Kujtan, P.**
Effects of low concentrations of ethanol on CA1 hippocampal neurons *in vitro*
D. DURAND, W.A. CORRIGALL, P. KUJTAN, and P.L. CARLEN 979
- Kvietys, P.R.**
Effects of bradykinin on intestinal transcapillary fluid exchange
J.A. BARROWMAN, M.A. PERRY, P.R. KVIETYS, M. ULRICH, and D.N. GRANGER 786
- Kwan, C.Y.**
Effect of digitonin on rat myometrium subcellular membrane fractions
A.K. GROVER, C.Y. KWAN, J. CRANKSHAW, and E.E. DANIEL 1128
- LaBella, F.S.**
Is there a general anesthesia receptor
FRANK S. LABELLA 432
- Lamarre, Y.**
Patterns of muscular and motor cortical activity during a simple arm movement in the monkey
Y. LAMARRE, G. SPIDALIERI, and J.P. LUND 748
- Lambert, H.**
Stimulus-secretion coupling in exocrine pancreas: possible role of calmodulin
SEYMOUR HEISLER, LAURENCE CHAUVELOT, DIANE DESJARDINS, CHRISTINE NOEL, HERMAN LAMBERT, and LOUISE DESY-AUDET 994

- Larson, R.E.**
Early effects of glucose and oxygen deprivation on the spontaneous acetylcholine release from the myenteric plexus of the guinea pig ileum
ROY E. LARSON and HILÁRIO R. MARTINS 555
- Larsson, C.**
Prostaglandin involvement in contractions evoked in rabbit detrusor by field stimulation and by adenosine 5'-triphosphate
J.W. DOWNIE and C. LARSSON 253
- Laurencin, C.**
Liberation of cyclic AMP and catecholamine from the heart during left stellate stimulation in the anesthetized dog
M. LAVALLÉE, C. LAURENCIN, J. DE CHAMPLAIN, and R.A. NADEAU 533
- Laury, C.**
Brown adipose tissue and carnitine in cold-adapted rats
P. HAHN, C. LAURY, and R. PORTET 351
- Lautt, W.W.**
Evaluation of surgical denervation of the liver in cats
W. WAYNE LAUTT 1013
- Lavallée, M.**
Liberation of cyclic AMP and catecholamine from the heart during left stellate stimulation in the anesthetized dog
M. LAVALLÉE, C. LAURENCIN, J. DE CHAMPLAIN, and R.A. NADEAU 533
- Lavoie, P.-A.**
Importance of monovalent ions for the fast axonal transport of proteins
P.-A. LAVOIE 31
- Leblanc, J.**
Protein synthesis, amino acid uptake, and pools during isoproterenol-induced hypertrophy of the rat heart and tibialis muscle
YVES DESHAIES, JOAN WILLEMOT, and JACQUES LEBLANC 113
- Ledsome, J.R.**
Respiratory and cardiovascular responses to temperature changes in the perfused pulmonary arteries of the dog
J.R. LEDSOME, W.O. KAN, and C.P. BOLTER 493
- Lee, K.**
Circulatory effects of acute chronic endotoxemia in rats
R. KEELER, ANAMARIA BARRIENTOS, and K. LEE 204
- Lee, R.G.**
Classifying sensory patterns and their effects on locomotion and tremor
R.B. STEIN, T. GORDON, M.N. OĞUZTÖRELİ, and R.G. LEE 645
- Leenen, F.H.H.**
Maintenance of blood pressure by β adrenoceptor mediated renin release during different forms of anesthesia in rats.
F.H.H. LEENEN and A.P. PROVOOST 364
- Leenen, F.H.H.**
Diuretic and cardiovascular effects of furosemide in rats
FRANS H.H. LEENEN 1002
- Leighton, K.M.**
Prolonged inhibition of pressor response to vasopressin by a potent specific antagonist, [1-(β -mercapto- β , β -cyclopentamethylenepropionic acid) 2-(*O*-methyl)tyrosine]arginine-vasopressin
CATHERINE C.Y. PANG and KENNETH M. LEIGHTON 1008
- Lemieux, G.**
Maintenance of glomerulotubular balance for bicarbonate during carbonic anhydrase inhibition in the dog
ANDRÉ GOUGOUX, MARIA-ANGELICA DURAN, GUY LEMIEUX, and PATRICK VINAY 225
- Levesque, M.J.**
Fast transit of red cells and plasma in contracted versus relaxed spleens
M.J. LEVESQUE and A.C. GROOM 53
- Lewis, T.D.**
Initiation of migrating myoelectric complexes in human subjects: role of duodenal acidification and plasma motilin
E.E. DANIEL, J.E.T. FOX, S.M. COLLINS, T.D. LEWIS, M. MEGHJI, and N.S. TRACK 173
- Lewis, T.D.**
Changes in plasma motilin concentration in response to manipulation of intragastric and intraduodenal contents in man
STEPHEN M. COLLINS, TERENCE D. LEWIS, JO-ANN E.T. FOX, NORMAN S. TRACK, MOHAMED M. MEGHJI, and E.E. DANIEL 188
- Lillie, M.A.**
Peripheral vascular responses during acute anemia
C.K. CHAPLER, W.N. STAINSBY, and M.A. LILLIE 102
- Linnoila, M.**
Effect of phenobarbital on sleep and nighttime plasma growth hormone and cortisol levels
PATRICIA N. PRINZ, MICHAEL V. VITIELLO, TIMOTHY A. ROEHRS, MARKKU LINNOILA, and ELLIOTT D. WEITZMAN 1139
- Liu, J.**
The postexcitatory effects of acidic amino acids on spinal neurons
H. MCLENNAN and JIN-RONG LIU 239
- Llanos, G.**
Triazene metabolism. II. Transportability and enzyme inhibitory characteristics of metabolites of antitumor dimethyltriazenes
JAMES R.P. GODIN, GERARD LLANOS, KEITH VAUGHAN, and KENNETH W. RENTON 1239
- Loeb, G.E.**
Somatosensory unit input to the spinal cord during normal walking
GERALD E. LOEB 627
- Lohmeier, T.E.**
The Ninth J.A.F. Stevenson Memorial Lecture. The many roles of the kidney in arterial pressure control and hypertension
ARTHUR C. GUYTON, JOHN E. HALL, THOMAS E. LOHMEIER, THOMAS E. JACKSON, and R. DAVIS MANNING, JR. 513

- Loo, D.D.F.**
Some observations on the behaviour of chloride current-voltage relations in *Xenopus* muscle membrane in acid solutions
DONALD D.F. LOO, JAMES G. McLARNON, and
PETER C. VAUGHAN 7
- Low, M.P.**
Calcium activation of sarcoplasmic reticulum ATPase following strenuous activity
A.N. BELCASTRO, M. ROSSITER, M.P. LOW, and
M.M. SÖPPER 1214
- Lukacs, P.**
The effects of nucleotides on the response of the isolated guinea pig urinary bladder to nonadrenergic, noncholinergic nerve stimulation
P. LUKACSKO and R.D. KRELL 1199
- Lund, J.P.**
Interactions between the jaw-opening reflex and mastication
J.P. LUND, S. ROSSIGNOL, and T. MURAKAMI 683
- Lund, J.P.**
Patterns of muscular and motor cortical activity during a simple arm movement in the monkey
Y. LAMARRE, G. SPIDALIERI, and J.P. LUND 748
- Lundren, E.**
Human interferon for clinical trials: removal of pyrogen by a simple two-step procedure
H. BORG, E. LUNDREN, M.D. HOLLENBERG, W.L. VEALE,
Y.H. TAN, and A. MCPHERSON 890
- Lundy, P.M.**
Ketamine potentiates catecholamine responses of vascular smooth muscle by inhibition of extraneuronal uptake
PAUL M. LUNDY and ROBERT FREW 520
- Macdonald, M.C.**
Dietary linoleic acid and salt-induced hypertension
MURRAY C. MACDONALD, ROBERT L. KLINE, and
GORDON J. MAGNUSON 872
- MacFarlane, B.J.**
Effect of oral propranolol on the anaerobic threshold and maximum exercise performance in normal man
RICHARD L. HUGHSON and BARBARA J. MACFARLANE 567
- MacIntosh, C.M.**
Species differences in histamine receptors in the second vesicle
C.M. MACINTOSH and M.M. VOHRA 824
- MacLeod, K.M.**
The influence of altered thyroid hormone levels on guinea pig cardiac adrenoceptors and histamine receptors
K.M. MACLEOD and J.H. MCNEILL 1039
- Madras, B.K.**
Saturable binding of [³H]phenytoin to rat brain membrane fraction
W.M. BURNHAM, L. SPERO, M.M. OKAZAKI, and
B.K. MADRAS 402
- Magee, D.F.**
Catecholamines and the cephalic phase of gastric secretion
K. ETZEL, J. WISECARVER, and D.F. MAGEE 1189
- Mahon, W.A.**
Aminopyrine metabolism in cryopreserved isolated rat hepatocytes
T. INABA, L. MAKOWKA, L. ROTSTEIN, W.A. MAHON,
R.E. FALK, J.E. FALK, and M.J. PHILLIPS 408
- Makowka, L.**
Aminopyrine metabolism in cryopreserved isolated rat hepatocytes
T. INABA, L. MAKOWKA, L. ROTSTEIN, W.A. MAHON,
R.E. FALK, J.E. FALK, and M.J. PHILLIPS 408
- Malkinson, T.J.**
Expired air volumes of males and females during cold water immersion
T.J. MALKINSON, S. MARTIN, P. SIMPER, and
K.E. COOPER 843
- Manchester, E.**
Short-term fluctuations in the concentration of cortisol and progesterone in fetal plasma, maternal plasma, and amniotic and allantoic fluids from sheep during late pregnancy
J.R.G. CHALLIS, J.E. PATRICK, JILL CROSS, J. WORKEWYCH,
E. MANCHESTER, and S. POWER 261
- Mandin, H.**
Effect of arachidonic acid and indomethacin on renal function of dogs with pericardial tamponade
ROBERT J. BOUDREAU and HENRY MANDIN 586
- Manning, R.D., Jr.**
The Ninth J.A.F. Stevenson Memorial Lecture. The many roles of the kidney in arterial pressure control and hypertension
ARTHUR C. GUYTON, JOHN E. HALL, THOMAS E. LOHMEIER,
THOMAS E. JACKSON, and R. DAVIS MANNING, JR. 513
- Marceau, F.**
The degradation of bradykinin (BK) and of des-Arg⁹-BK in plasma
F. MARCEAU, M. GENDREAU, J. BARABÉ, S. ST-PIERRE, and
D. REGOLI 131
- Marceau, F.**
Pharmacological characterization of the vascular permeability-enhancing effects of kinins in the rabbit skin
F. MARCEAU, M. KNAP, and D. REGOLI 921
- Marks, G.S.**
Effects of porphyrin-inducing drugs on ferrochelatase activity in isolated mouse hepatocytes
SUSAN P.C. COLE, THOMAS E. MASSEY, GERALD S. MARKS,
and WILLIAM J. RACZ 1155
- Martin, S.**
Expired air volumes of males and females during cold water immersion
T.J. MALKINSON, S. MARTIN, P. SIMPER, and
K.E. COOPER 843
- Martins, H.R.**
Early effects of glucose and oxygen deprivation on the spontaneous acetylcholine release from the myenteric plexus of the guinea pig ileum
ROY E. LARSON and HILÁRIO R. MARTINS 555

- Massey, T.E.**
Effects of porphyrin-inducing drugs on ferrochelatase activity in isolated mouse hepatocytes
SUSAN P.C. COLE, THOMAS E. MASSEY, GERALD S. MARKS, and WILLIAM J. RACZ 1155
- McDonald, T.F.**
Single cells from adult mammalian heart: isolation procedure and preliminary electrophysiological studies
J. OMAR BUSTAMANTE, TOSHIFUMI WATANABE, and TERENCE F. McDONALD 907
- McGuire, R.P.**
Antagonism of calcium-induced contraction in potassium-depolarized rabbit detrusor muscle strips by dicyclomine hydrochloride and rocurine
J.W. DOWNIE and R.P. MCGUIRE 853
- McIntosh, C.**
Somatostatin and gastrin release into the gastric lumen in rats
H. KOOP, G. SIMSON, C. MCINTOSH, R.A. BEDELL, R. ARNOLD, and W. CREUTZFELDT 574
- McIntosh, C.H.S.**
Gastric inhibitory polypeptide stimulated secretion of somatostatin-like immunoreactivity from the stomach: inhibition by acetylcholine or vagal stimulation
C.H.S. MCINTOSH, R.A. PEDERSON, H. KOOP, and J.C. BROWN 468
- McKenzie, G.M.**
Dissociation of the antiaggression and serotonin-depleting effects of fenfluramine
G.M. MCKENZIE 830
- McKercher, H.G.**
The effect of porcine calcitonin on intestinal calcium and phosphate fluxes in the young piglet
H.G. MCKERCHER and I.C. RADDE 71
- McLarnon, J.G.**
Some observations on the behaviour of chloride current-voltage relations in *Xenopus* muscle membrane in acid solutions
DONALD D.F. LOO, JAMES G. MCLARNON, and PETER C. VAUGHAN 7
- McLean, J.**
Isolation and characterization of subcellular membranes from canine stomach smooth muscle
Y. SAKAI, J. MCLEAN, A.K. GROVER, R.E. GARFIELD, J.E.T. FOX, and E.E. DANIEL 1260
- McLennan, H.**
The postexcitatory effects of acidic amino acids on spinal neurones
H. MCLENNAN and JIN-RONG LIU 239
- McNamee, M.G.**
Alteration of acetylcholine receptor and acetylcholinesterase metabolism by actinomycin D in cultured muscle cells
PAUL M. WEIDOFF, JR., MARK G. MCNAMEE, and BARRY W. WILSON 580
- McNeill, J.H.**
The characterization of cardiac histaminergic chronotropic receptors in the rabbit
ALICIA POLANIN, THOMAS E. TENNER, JR., and JOHN H. MCNEILL 14
- McNeill, J.H.**
Characterization of the histamine receptors in rabbit left atria
ALICIA POLANIN and JOHN H. MCNEILL 19
- McNeill, J.H.**
The effect of theophylline on histamine H₁ and H₂ receptor mediated responses in rabbit atria
ALICIA POLANIN and JOHN H. MCNEILL 25
- McNeill, J.H.**
The influence of altered thyroid hormone levels on guinea pig cardiac adrenoceptors and histamine receptors
K.M. MACLEOD and J.H. MCNEILL 1039
- McNeill, J.J.**
Cardiac effects of prostaglandins E₁ and F_{1α}
RAO V.S.V. VADLAMUDI and JOHN J. MCNEILL 473
- McPherson, A.**
Human interferon for clinical trials: removal of pyrogen by a simple two-step procedure
H. BORG, E. LUNDREN, M.D. HOLLENBERG, W.L. VEALE, Y.H. TAN, and A. MCPHERSON 890
- Meeks, L.A.**
Renal acidification in the hypothyroid rat. Evaluation by urinary CO₂ tension
ULRICH F. MICHAEL, JAN KELLEY, LAURENCE A. MEEKS, and CARLOS A. VAAMONDE 273
- Meghji, M.**
Initiation of migrating myoelectric complexes in human subjects: role of duodenal acidification and plasma motilin
E.E. DANIEL, J.E.T. FOX, S.M. COLLINS, T.D. LEWIS, M. MEGHJI, and N.S. TRACK 173
- Meghji, M.M.**
Changes in plasma motilin concentration in response to manipulation of intragastric and intraduodenal contents in man
STEPHEN M. COLLINS, TERENCE D. LEWIS, JO-ANN E.T. FOX, NORMAN S. TRACK, MOHAMED M. MEGHJI, and E.E. DANIEL 188
- Menard, M.R.**
The influence of "nonmyoplasmic" sodium on the measured value of the sodium efflux from barnacle muscle
M.R. MENARD and J.A.M. HINKE 1219
- Mettrick, D.F.**
Migration of *Hymenolepis diminuta* (Cestoda) and changes in 5-HT (serotonin) levels in the rat host following parenteral and oral 5-HT administration
D.F. METTRICK and C.H. CHO 281
- Michael, U.F.**
Renal acidification in the hypothyroid rat. Evaluation by urinary CO₂ tension
ULRICH F. MICHAEL, JAN KELLEY, LAURENCE A. MEEKS, and CARLOS A. VAAMONDE 273

- Miller, J.J.**
Commissural potentiation of perforant path evoked responses in the dentate gyrus of the rat
S.Y. ASSAF and J.J. MILLER 1117
- Minami, N.**
Lethal factor in the male mouse submandibular gland
KEIKO HATAKEYAMA, MASAHICO HIRAMATSU, and NAOMI MINAMI 1134
- Misu, Y.**
Cardiovascular responses to intracisternal administration of nicotine in rats
TAKAO KUBO and YOSHIMI MISU 615
- Mizrahi, J.**
Peptides and the human colon: an *in vitro* pharmacological study
R. COUTURE, J. MIZRAHI, D. REGOLI, and G. DEVROEDE 957
- Mogenson, G.J.**
Dietary linoleic acid and salt-induced hypertension
MURRAY C. MACDONALD, ROBERT L. KLINE, and GORDON J. MOGENSEN 872
- Moody, C.**
Tetrodotoxin-resistant release of ATP from guinea-pig taenia coli and vas deferens during electrical field stimulation in the presence of luciferin-luciferase
THOMAS WHITE, PAMELA POTTER, CATHERINE MOODY, and GEOFFREY BURNSTOCK 1094
- Morgan, C.A.**
Lithium accelerates the development of tolerance to alcohol in rats
FRED J. BOLAND, C. ALLISON MORGAN, and PAUL C. BERRY 1203
- Morimoto, T.**
Proprioceptive input from the jaw muscles and its influence on lapping, chewing, and posture
T. TAYLOR, K. APPERTENG, and T. MORIMOTO 636
- Morishima, T.**
The effect of rectal administration of insulin on the short-term treatment of alloxan-diabetic dogs
YOSHIMITSU YAMASAKI, MOTOAKI SHICHIRI, RYUZO KAWAMORI, TOYOHICO MORISHIMA, NOBUYOSHI HAKUI, TOSHIHIKO YAGI, and HIROSHI ABE 1
- Morita, S.**
Insulin and glucagon in rats with islet cell tumors induced by small doses of streptozotocin
GEN YOSHINO, TSUTOMU KAZUMI, SOICHIRO MORITA, and SHIGEAKI BABA 818
- Morris, A.L.**
Role of the pericardium and intact chest wall in the hemodynamic response to positive end-expiratory pressure ventilation
ANDREW L. MORRIS, SIMON W. RABKIN, BRIAN AYOTTE, and GYAN P. SHARMA 45
- Morris, M.E.**
Slow diffusion of Ca^{2+} in the rat's hippocampus
M.E. MORRIS and K. KRNEVIC 1022
- Morrisset, J.**
Effects of gestation and lactation on rat gastric fundus
L. JOLICOEUR, J. ASSELIN, and J. MORRISSET 96
- Mortola, J.P.**
Hering-Breuer inflation reflex in young and adult mammals
C. GAULTIER and J.P. MORTOLA 1017
- Murakami, T.**
Interactions between the jaw-opening reflex and mastication
J.P. LUND, S. ROSSIGNOL, and T. MURAKAMI 683
- Murray, H.C.**
Effects of crude oil ingestion on avian intestinal function
WILLIAM C. EASTIN, JR., and HELEN C. MURRAY 1063
- Musgrave, G.E.**
Relative sensitivity of the canine sinus node and atrioventricular node to acetylcholine
G.E. MUSGRAVE, C.E. BRANCH, and S.D. BECKETT 1058
- Nadeau, R.A.**
Liberation of cyclic AMP and catecholamine from the heart during left stellate stimulation in the anesthetized dog
M. LAVALLÉE, C. LAURENCIN, J. DE CHAMPLAIN, and R.A. NADEAU 533
- Najafi-Farashah, A.**
Dibutyl cyclic GMP, a competitive inhibitor of cholecystokinin/pancreozymin and related peptides in the gallbladder and ileum
J.S. DAVISON and A. NAJAFI-FARASHAH 1100
- Nakatsu, K.**
Enkephalin-induced inhibition of the isolated rat ileum is not blocked by naloxone
K. NAKATSU, E. GOLDENBERG, D. PENNING, and K. JHAMANDAS 901
- Neff, N.H.**
Cyclobenzaprine: a possible mechanism of action for its muscle relaxant effect
JOHN W. COMMISSIONG, FAROUK KAROUM, RHODERICK J. REIFFENSTEIN, and NORTON H. NEFF 37
- Ness, L.**
Brain norepinephrine, dopamine, and 5-hydroxytryptamine concentration abnormalities and their role in the high seizure susceptibility of epileptic chickens
D.D. JOHNSON, A.T. JAJU, L. NESS, J.S. RICHARDSON, and R.D. CRAWFORD 144
- Nguyen-Thi, A.**
Electrophysiologic effects and electrolyte changes in total myocardial ischemia
AN NGUYEN-THI, ELENA RUIZ-CERETTI, and OTTO F. SCHANNE 876
- Noel, C.**
Stimulus-secretion coupling in exocrine pancreas: possible role of calmodulin
SEYMOUR HEISLER, LAURENCE CHAUVELOT, DIANE DESJARDINS, CHRISTINE NOEL, HERMAN LAMBERT, and LOUISE DESY-AUDET 994

- Oba, T.**
Influence of temperature and external Ca^{2+} concentration upon dantrolene action on excitation-contraction coupling in frog skeletal muscle
TOSHIHARU OBA 358
- Oba, T.**
Erratum: Influence of temperature and external Ca^{2+} concentration upon dantrolene action on excitation-contraction coupling in frog skeletal muscle
TOSHIHARU OBA 607
- O'Brien, D.W.**
The effect of prolonged physical training and high fat diet on heart size and body weight in rats
DARRYL W. O'BRIEN 268
- Oğuztöreli, M.N.**
Classifying sensory patterns and their effects on locomotion and tremor
R.B. STEIN, T. GORDON, M.N. OĞUZTÖRELI, and R.G. LEE 645
- Okazaki, M.M.**
Saturable binding of [^3H]phenytoin to rat brain membrane fraction
W.M. BURNHAM, L. SPERO, M.M. OKAZAKI, and B.K. MADRAS 402
- Okey, A.B.**
Rapid vertical tube rotor gradient assay for binding of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin to the *Ah* receptor
HING WO TSUI and ALLAN B. OKEY 927
- Padsha, M.**
Transducer properties of atrial receptors in the dog after 60 min of increased atrial pressure
C.T. KAPPAGODA and M. PADSHA 837
- Palatý, V.**
Release of noradrenaline from the rat tail artery induced by inhibition of the sodium pump in calcium-free solution
VLADIMÍR PALATÝ 347
- Pang, C.C.Y.**
Prolonged inhibition of pressor response to vasopressin by a potent specific antagonist, [1-(β -mercapto- β , β -cyclopentamethylenepropionic acid) 2-(*O*-methyl)tyrosine]arginine-vasopressin
CATHERINE C.Y. PANG and KENNETH M. LEIGHTON 1008
- Paterson, N.A.M.**
A comparison of antigen-induced and calcium ionophore A23187 induced contraction of isolated guinea pig trachea
JOHN F. BURKA and NIGEL A.M. PATERSON 1031
- Patrick, J.E.**
Short-term fluctuations in the concentration of cortisol and progesterone in fetal plasma, maternal plasma, and amniotic and allantoic fluids from sheep during late pregnancy
J.R.G. CHALLIS, J.E. PATRICK, JILL CROSS, J. WORKEWYCH, E. MANCHESTER, and S. POWER 261
- Patrick, J.E.**
Fetal and maternal estrogen concentrations throughout pregnancy in the sheep
JOHN R.G. CHALLIS and JOHN E. PATRICK 970
- Pearson, K.G.**
Function of sensory input in insect motor systems
K.G. PEARSON 660
- Pederson, R.A.**
Gastric inhibitory polypeptide stimulated secretion of somatostatinlike immunoreactivity from the stomach: inhibition by acetylcholine or vagal stimulation
C.H.S. MCINTOSH, R.A. PEDERSON, H. KOOP, and J.C. BROWN 468
- Penning, D.**
Enkephalin-induced inhibition of the isolated rat ileum is not blocked by naloxone
K. NAKATSU, E. GOLDENBERG, D. PENNING, and K. JHAMANDAS 901
- Perkowski, S.**
Phospholipase A_2 stimulated release of prostanoids from the isolated, perfused rabbit liver: implications in regional cellular injury
JOHN T. FLYNN, JOSEPH M. HENRY, and SANDRA PERKOWSKI 1268
- Perry, M.A.**
Effects of bradykinin on intestinal transcapillary fluid exchange
J.A. BARROWMAN, M.A. PERRY, P.R. KVIETYS, M. ULRICH, and D.N. GRANGER 786
- Peterson, M.A.**
The mechanism of the bronchoconstriction induced by unilateral orthodromic stimulation of the carotid sinus nerves
D.F. BIGGS and M.A. PETERSON 965
- PetitClerc, C.**
Renal transport of phosphate: role of alkaline phosphatase
CLAUDE PETITCLERC and GÉRARD E. PLANTE 311
- Philippe, E.**
Baclofen modifies via the release of monoamines the synaptic depression, frequency facilitation, and posttetanic potentiation observed at an identified cholinergic synapse of *Aplysia californica*
E. PHILIPPE, G. GRENON, and J.P. TREMBLAY 244
- Phillips, M.J.**
Aminopyrine metabolism in cryopreserved isolated rat hepatocytes
T. INABA, L. MAKOWKA, L. ROTSTEIN, W.A. MAHON, R.E. FALK, J.E. FALK, and M.J. PHILLIPS 408
- Phillis, J.W.**
Phenothiazines inhibit adenosine uptake by rat brain synaptosomes
J.W. PHILLIS and P.H. WU 1108
- Plante, G.E.**
Renal transport of phosphate: role of alkaline phosphatase
CLAUDE PETITCLERC and GÉRARD E. PLANTE 311
- Ploucha, J.M.**
Vascular response of the chicken hindlimb to vasoactive agents, asphyxia, and exercise
JAMES M. PLOUCHA, ROBERT K. RINGER, and JERRY B. SCOTT 1228

- Plyley, M.J.**
Central and peripheral adaptations of the gas transport system to one-leg training
S.G. THOMAS, D.A. CUNNINGHAM, M.J. PLYLEY, D.R. BOUGHNER, and R.A. COOK 1146
- Polanin, A.**
The characterization of cardiac histaminergic chronotropic receptors in the rabbit
ALICIA POLANIN, THOMAS E. TENNER, JR., and JOHN H. MCNEILL 14
- Polanin, A.**
Characterization of the histamine receptors in rabbit left atria
ALICIA POLANIN and JOHN H. MCNEILL 19
- Polanin, A.**
The effect of theophylline on histamine H₁ and H₂ receptor mediated responses in rabbit atria
ALICIA POLANIN and JOHN H. MCNEILL 25
- Pomier, G.**
Effect of ethanol on hepatic blood flow in unanesthetized dogs with chronic portal and hepatic vein catheterization
J.P. VILLENEUVE, G. POMIER, and P.M. HUET 598
- Portet, R.**
Brown adipose tissue and carnitine in cold-adapted rats
P. HAHN, C. LAURY, and R. PORTET 351
- Potter, P.**
Tetrodotoxin-resistant release of ATP from guinea-pig taenia coli and vas deferens during electrical field stimulation in the presence of luciferin-luciferase
THOMAS WHITE, PAMELA POTTER, CATHERINE MOODY, and GEOFFREY BURNSTOCK 1094
- Power, S.**
Short-term fluctuations in the concentration of cortisol and progesterone in fetal plasma, maternal plasma, and amniotic and allantoic fluids from sheep during late pregnancy
J.R.G. CHALLIS, J.E. PATRICK, JILL CROSS, J. WORKEWYCH, E. MANCHESTER, and S. POWER 261
- Prelusky, D.B.**
The effects of cofactor and species differences on the *in vitro* metabolism of propiophenone and phenylacetone
R.T. COUTTS, D.B. PRELUSKY, and G.R. JONES 195
- Prinz, P.N.**
Effect of phenobarbital on sleep and nighttime plasma growth hormone and cortisol levels
PATRICIA N. PRINZ, MICHAEL V. VITIELLO, TIMOTHY A. ROEHRS, MARKKU LINNOILA, and ELLIOTT D. WEITZMAN 1139
- Provoost, A.P.**
Maintenance of blood pressure by β adrenoceptor mediated renin release during different forms of anesthesia in rats.
F.H.H. LEENEN and A.P. PROVOOST 364
- Puil, E.**
Ibotenic acid: its excitatory and possibly sedative actions in cerebral cortex
E. PUIL 1025
- Puil, E.**
Internal cesium ions block various K conductances in spinal motoneurons
E. PUIL and R. WERMAN 1280
- Quamme, G.A.**
Effects of intraluminal sulfate on electrolyte transfers along the perfused rat nephron
GARY A. QUAMME 122
- Rabkin, S.W.**
Role of the pericardium and intact chest wall in the hemodynamic response to positive end-expiratory pressure ventilation
ANDREW L. MORRIS, SIMON W. RABKIN, BRIAN AYOTTE, and GYAN P. SHARMA 45
- Racz, W.J.**
Effects of porphyrin-inducing drugs on ferrochelatase activity in isolated mouse hepatocytes
SUSAN P.C. COLE, THOMAS E. MASSEY, GERALD S. MARKS, and WILLIAM J. RACZ 1155
- Radde, I.C.**
The effect of porcine calcitonin on intestinal calcium and phosphate fluxes in the young piglet
H.G. MCKERCHER and I.C. RADDE 71
- Rahwan, R.G.**
The effect of 2-*n*-propyl-3-dimethylamino-5,6-methylenedioxynedene on caffeine-induced contractures of skeletal muscle
RALF G. RAHWAN and MICHAEL C. GERALD 617
- Regoli, D.**
The degradation of bradykinin (BK) and of des-Arg⁹-BK in plasma
F. MARCEAU, M. GENDREAU, J. BARABÉ, S. ST-PIERRE, and D. REGOLI 131
- Regoli, D.**
Pharmacological studies of kinins in venous smooth muscles
P. GAUDREAU, J. BARABÉ, S. ST-PIERRE, and D. REGOLI 371
- Regoli, D.**
Structure-activity study of kinins in vascular smooth muscles
P. GAUDREAU, J. BARABÉ, S. ST-PIERRE, and D. REGOLI 380
- Regoli, D.**
Inactivation of substance P and its C-terminal fragments in rat plasma and its inhibition by Captopril
R. COUTURE and D. REGOLI 621
- Regoli, D.**
Pharmacological characterization of the vascular permeability-enhancing effects of kinins in the rabbit skin
F. MARCEAU, M. KNAP, and D. REGOLI 921
- Regoli, D.**
Peptides and the human colon: an *in vitro* pharmacological study
R. COUTURE, J. MIZRAHI, D. REGOLI, and G. DEVROEDE 957

- Reiffenstein, R.J.**
Cyclobenzaprine: a possible mechanism of action for its muscle relaxant effect
JOHN W. COMMISSIONG, FAROUK KAROUM,
RHODERICK J. REIFFENSTEIN, and NORTON H. NEFF 37
- Renton, K.W.**
Triazene metabolism. I. The effect of substituents in the aryl group on the kinetics of enzyme-catalysed *N*-demethylation of 1-aryl-3,3-dimethyltriazenes
JAMES R.P. GODIN, KEITH VAUGHAN, and
KENNETH W. RENTON 1234
- Renton, K.W.**
Triazene metabolism. II. Transportability and enzyme inhibitory characteristics of metabolites of antitumor dimethyltriazenes
JAMES R.P. GODIN, GERARD LLANOS, KEITH VAUGHAN, and
KENNETH W. RENTON 1239
- Richardson, J.S.**
Brain norepinephrine, dopamine, and 5-hydroxytryptamine concentration abnormalities and their role in the high seizure susceptibility of epileptic chickens
D.D. JOHNSON, A.T. JAJU, L. NESS, J.S. RICHARDSON, and
R.D. CRAWFORD 144
- Ringer, R.K.**
Vascular response of the chicken hindlimb to vasoactive agents, asphyxia, and exercise
JAMES M. PLOUCHA, ROBERT K. RINGER, and
JERRY B. SCOTT 1228
- Risley, E.A.**
Interaction of putative anxiolytic agents with central adenosine receptors
MICHAEL WILLIAMS, EDWIN A. RISLEY, and
JOEL R. HUFF 897
- Roberge, A.G.**
Different influences of two types of diets commonly used for rats on a series of parameters related to the metabolism of central serotonin and noradrenaline
OLIVER HÉROUX and ANDRÉE G. ROBERGE 108
- Robson, W.L.M.**
Effect of mineralocorticoids on collecting duct hydrogen ion secretion in the rabbit
W.L.M. ROBSON, M.L. HALPERIN, B.J. STINEBAUGH, and
M.B. GOLDSTEIN 235
- Roehrs, T.A.**
Effect of phenobarbital on sleep and nighttime plasma growth hormone and cortisol levels
PATRICIA N. PRINZ, MICHAEL V. VITIELLO,
TIMOTHY A. ROEHRS, MARKKU LINNOILA, and
ELLIOTT D. WEITZMAN 1139
- Romain, Y.**
Platelet phenolsulfotransferase and catecholamines: physiological and pathological variations in humans
L. ABENHAÏM, Y. ROMAIN, and O. KUCHEL 300
- Roport, N.**
Septo-hippocampal pathway modulates hippocampal activity by a cholinergic mechanism
K. KRNIJEVIĆ and N. ROPERT 911
- Rossignol, S.**
Stimulus-response relationships during locomotion
S. ROSSIGNOL, C. JULIEN, and L. GAUTHIER 667
- Rossignol, S.**
Interactions between the jaw-opening reflex and mastication
J.P. LUND, S. ROSSIGNOL, and T. MURAKAMI 683
- Rossiter, M.**
Calcium activation of sarcoplasmic reticulum ATPase following strenuous activity
A.N. BELCASTRO, M. ROSSITER, M.P. LOW, and
M.M. SOPPER 1214
- Rotstein, L.**
Aminopyrine metabolism in cryopreserved isolated rat hepatocytes
T. INABA, L. MAKOWKA, L. ROTSTEIN, W.A. MAHON,
R.E. FALK, J.E. FALK, and M.J. PHILLIPS 408
- Rouleau, J.R.**
Free fatty acids as a determinant of myocardial oxygen consumption: a caveat
GILLES R. DAGENAIS, JACQUES R. ROULEAU, and
ISABELLE CÔTÉ 806
- Royston, J.P.**
Steady state glucose kinetics and their relation to plasma glucose concentration in the premature and full term neonatal piglet
P.A. FLECKNELL, R. WOOTTON, M. JOHN, and
J.P. ROYSTON 1069
- Ruiz-Ceretti, E.**
Electrophysiologic effects and electrolyte changes in total myocardial ischemia
AN NGUYEN-THI, ELENA RUIZ-CERETTI, and
OTTO F. SCHANNE 876
- St-Jean, P.**
Distribution of amylase and chymotrypsin in four regions of the rat pancreas
ADRIEN R. BEAUDOIN, PIERRE ST-JEAN, and
GINETTE GIRARD 884
- St-Louis, J.**
Relaxin inhibition of KCl-induced uterine contractions *in vitro*: an alternative bioassay
JEAN ST-LOUIS 507
- St-Pierre, S.**
The degradation of bradykinin (BK) and of des-Arg⁹-BK in plasma
F. MARCEAU, M. GENDREAU, J. BARABÉ, S. ST-PIERRE, and
D. REGOLI 131
- St-Pierre, S.**
Pharmacological studies of kinins in venous smooth muscles
P. GAUDREAU, J. BARABÉ, S. ST-PIERRE, and
D. REGOLI 371
- St-Pierre, S.**
Structure-activity study of kinins in vascular smooth muscles
P. GAUDREAU, J. BARABÉ, S. ST-PIERRE, and
D. REGOLI 380

- Sakai, Y.**
Isolation and characterization of subcellular membranes from canine stomach smooth muscle
Y. SAKAI, J. MCLEAN, A.K. GROVER, R.E. GARFIELD, J.E.T. FOX, and E.E. DANIEL 1260
- Samila, Z.J.**
The effect of age on the unfolding of elastin lamellae and collagen fibers with stretch in human carotid arteries
ZENON J. SAMILA and STEFAN A. CARTER 1050
- Schadt, J.C.**
The reversal of hemorrhagic hypotension by naloxone in conscious rabbits
JAMES C. SCHATDT and DONALD H. YORK 1208
- Schanne, O.F.**
Explanted cardiac cells: a model to study drug actions?
O.F. SCHANNE and G. BKAILY 443
- Schanne, O.F.**
Electrophysiologic effects and electrolyte changes in total myocardial ischemia
AN NGUYEN-THI, ELENA RUIZ-CERETTI, and OTTO F. SCHANNE 876
- Scherrer, H.**
Endorphines; structure, rôles et biogénèse
M. CHRÉTIEN, N.G. SEIDAH et H. SCHERRER 413
- Schiffrin, E.L.**
Effects of tonin on the response to norepinephrine by the aortic strip of the hypertensive rat
R. GARCIA, E.L. SCHIFFRIN, G. THIBAUT, R. BOUCHER, and J. GENEST 790
- Schiffrin, E.L.**
Pressor effect of tonin in anephric animals
E.L. SCHIFFRIN, R. GARCIA, J. GUTKOWSKA, R. BOUCHER, and J. GENEST 864
- Scott, J.B.**
Vascular response of the chicken hindlimb to vasoactive agents, asphyxia, and exercise
JAMES M. PLOUCHA, ROBERT K. RINGER, and JERRY B. SCOTT 1228
- Seagard, J.L.**
Segmental ventricular adjustments to brief periods of ischemia in the dog
Z.J. BOSNJAK, J.L. SEAGARD, E.J. ZUPERKU, R.L. COON, H.M. SINGH, V.S. BAMRAH, and J.P. KAMPINE 287
- Sebag, M.**
Biochemical changes in progressive muscular dystrophy. XI. Cyclic nucleotides in the skeletal and cardiac muscle of normal and dystrophic mice
UMA SRIVASTAVA, MIKAEL SEBAG, and MANOHAR THAKUR 329
- Seeman, P.**
Multiple binding sites for [³H]clonidine and [³H]WB-4101 in rat brain
PNINA WEINREICH, ANDREW CHIU, JERRY WARSH, and PHILIP SEEMAN 1170
- Seidah, N.G.**
Endorphines; structure, rôles et biogénèse
M. CHRÉTIEN, N.G. SEIDAH et H. SCHERRER 413
- Seidah, N.G.**
Detection from rat pituitary of β -lipotropin and materials containing opiatelike activity by combined enzymatic radioreceptor assay
J.S.D. CHAN, N.G. SEIDAH, M. IKEDA, J. GUTKOWSKA, R. BOUCHER, J. GENEST, and M. CHRÉTIEN 811
- Seoane, J.R.**
Ionic composition (Na^+ , K^+ , Ca^{2+} , and Mg^{2+}) of cerebrospinal fluid and feeding behavior in sheep
J.R. SEOANE 390
- Shalhoub, R.J.**
Urinary zinc in relation to other cations and flow during volume expansion and intravenous chlorothiazide
DON W. WATKINS, LUCY D. ANTONIOU, and ROBERT J. SHALHOUB 562
- Sharma, G.P.**
Role of the pericardium and intact chest wall in the hemodynamic response to positive end-expiratory pressure ventilation
ANDREW L. MORRIS, SIMON W. RABKIN, BRIAN AYOTTE, and GYAN P. SHARMA 45
- Shichiri, M.**
The effect of rectal administration of insulin on the short-term treatment of alloxan-diabetic dogs
YOSHIMITSU YAMASAKI, MOTOAKI SHICHIRI, RYUZO KAWAMORI, TOYOHICO MORISHIMA, NOBUYOSHI HAKUI, TOSHIHIKO YAGI, and HIROSHI ABE 1
- Shin, S.H.**
Somatostatin inhibits prolactin secretion in the estradiol primed male rat
G.R. COOPER and S.H. SHIN 1082
- Silverman, M.**
Glucose reabsorption in the kidney
M. SILVERMAN 209
- Simper, P.**
Expired air volumes of males and females during cold water immersion
T.J. MALKINSON, S. MARTIN, P. SIMPER, and K.E. COOPER 843
- Simson, G.**
Somatostatin and gastrin release into the gastric lumen in rats
H. KOOP, G. SIMSON, C. MCINTOSH, R.A. BEDELL, R. ARNOLD, and W. CREUTZFELDT 574
- Singh, H.M.**
Segmental ventricular adjustments to brief periods of ischemia in the dog
Z.J. BOSNJAK, J.L. SEAGARD, E.J. ZUPERKU, R.L. COON, H.M. SINGH, V.S. BAMRAH, and J.P. KAMPINE 287
- Sirko, S.**
Adrenergic activity in arteries of spontaneously hypertensive rats
THOMAS T. ZSOTÉR, STEVE SIRKO, CAMILLE WOLCHINSKY, DEZSO KADAR, and LASZLO ENDRENYI 1104

- Skala, J.P.**
The effect of starvation on obese mice
P. HAHN and J.P. SKALA 355
- Smith, A.M.**
The coactivation of antagonist muscles
ALLAN M. SMITH 733
- Smith, R.S.**
Variability and temperature dependence of the velocity of retrograde particle transport in myelinated axons
RICHARD S. SMITH and PAUL D. COOPER 857
- Sonnenberg, H.**
Cardiac a trial factor—an endogenous diuretic?
H. SONNENBERG, C.K. CHONG, and A.T. VERESS 1278
- Sopper, M.M.**
Calcium activation of sarcoplasmic reticulum ATPase following strenuous activity
A.N. BELCASTRO, M. ROSSITER, M.P. LOW, and M.M. SOPPER 1214
- Spero, L.**
Saturable binding of [³H]phenytoin to rat brain membrane fraction
W.M. BURNHAM, L. SPERO, M.M. OKAZAKI, and B.K. MADRAS 402
- Spidalieri, G.**
Patterns of muscular and motor cortical activity during a simple arm movement in the monkey
Y. LAMARRE, G. SPIDALIERI, and J.P. LUND 748
- Spiers, D.E.**
Thermoregulatory responses of tailed and tailless rats to isoproterenol
DONALD E. SPIERS, CHRISTOPHER C. BARNEY, and MELVIN J. FREGLEY 847
- Srivastava, U.**
Biochemical changes in progressive muscular dystrophy. XI. Cyclic nucleotides in the skeletal and cardiac muscle of normal and dystrophic mice
UMA SRIVASTAVA, MIKAEL SEBAG, and MANOHAR THAKUR 329
- Stainsby, W.N.**
Peripheral vascular responses during acute anemia
C.K. CHAPLER, W.N. STAINSBY, and M.A. LILLIE 102
- Stein, R.B.**
Classifying sensory patterns and their effects on locomotion and tremor
R.B. STEIN, T. GORDON, M.N. OĞUZTÖRELI, and R.G. LEE 645
- Stinebaugh, B.J.**
Effect of mineralocorticoids on collecting duct hydrogen ion secretion in the rabbit
W.L.M. ROBSON, M.L. HALPERIN, B.J. STINEBAUGH, and M.B. GOLDSTEIN 235
- Stinebaugh, B.J.**
Implications of the finding of calcium carbonate in rabbit urine with respect to renal acidification
S.-C. TAM, M.B. GOLDSTEIN, C.B. CHEN, M.L. HALPERIN, and B.J. STINEBAUGH 800
- Sutak, M.**
Opiatlike actions of eseroline, an eserine derivative
K. JHAMANDAS, J. ELLIOTT, and M. SUTAK 307
- Tam, S.-C.**
Implications of the finding of calcium carbonate in rabbit urine with respect to renal acidification
S.-C. TAM, M.B. GOLDSTEIN, C.B. CHEN, M.L. HALPERIN, and B.J. STINEBAUGH 800
- Tan, Y.H.**
Human interferon for clinical trials: removal of pyrogen by a simple two-step procedure
H. BORG, E. LUNDREN, M.D. HOLLENBERG, W.L. VEALE, Y.H. TAN, and A. MCPHERSON 890
- Tatton, W.G.**
Comment: A schema for the interactions between motor programs and sensory input
W.G. TATTON and I.C. BRUCE 691
- Taylor, T.**
Proprioceptive input from the jaw muscles and its influence on lapping, chewing, and posture
T. TAYLOR, K. APPENTENG, and T. MORIMOTO 636
- Tenner, T.E., Jr.**
The characterization of cardiac histaminergic chronotropic receptors in the rabbit
ALICIA POLANIN, THOMAS E. TENNER, JR., and JOHN H. MCNEILL 14
- Thakur, M.**
Biochemical changes in progressive muscular dystrophy. XI. Cyclic nucleotides in the skeletal and cardiac muscle of normal and dystrophic mice
UMA SRIVASTAVA, MIKAEL SEBAG, and MANOHAR THAKUR 329
- Thibault, G.**
Effects of tonin on the response to norepinephrine by the aortic strip of the hypertensive rat
R. GARCIA, E.L. SCHIFFRIN, G. THIBAUT, R. BOUCHER, and J. GENEST 790
- Thomas, S.G.**
Central and peripheral adaptations of the gas transport system to one-leg training
S.G. THOMAS, D.A. CUNNINGHAM, M.J. PLYLEY, D.R. BOUGHNER, and R.A. COOK 1146
- Thomas, W.**
The effect of α -bungarotoxin on spontaneous activity in the ventral nerve cord of *Limulus polyphemus*
WILLIAM THOMAS and JAMES G. TOWNSEL 139

Thomson, A.B.R.

A theoretical discussion of the use of the Lineweaver-Burk plot to estimate kinetic parameters of intestinal transport in the presence of unstirred water layers
A.B.R. THOMSON 932

Thomson, C.M.

Different actions of calcium channel blocking agents on resting membrane conductance in developing skeletal muscle
C.M. THOMSON and W.F. DRYDEN 335

Townsel, J.G.

The effect of α -bungarotoxin on spontaneous activity in the ventral nerve cord of *Limulus polyphemus*
WILLIAM THOMAS and JAMES G. TOWNSEL 139

Track, N.S.

Initiation of migrating myoelectric complexes in human subjects: role of duodenal acidification and plasma motilin
E.E. DANIEL, J.E.T. FOX, S.M. COLLINS, T.D. LEWIS, M. MEGHJI, and N.S. TRACK 173

Track, N.S.

Relationship of plasma motilin concentration to fat ingestion, duodenal acidification and alkalinization, and migrating motor complexes in dogs
J.E.T. FOX, N.S. TRACK, and E.E. DANIEL 180

Track, N.S.

Changes in plasma motilin concentration in response to manipulation of intragastric and intraduodenal contents in man
STEPHEN M. COLLINS, TERENCE D. LEWIS, JO-ANN E.T. FOX, NORMAN S. TRACK, MOHAMED M. MEGHJI, and E.E. DANIEL 188

Tremblay, J.P.

Baclofen modifies via the release of monoamines the synaptic depression, frequency facilitation, and posttetanic potentiation observed at an identified cholinergic synapse of *Aplysia californica*
E. PHILIPPE, G. GRENON, and J.P. TREMBLAY 244

Tsui, H.W.

Rapid vertical tube rotor gradient assay for binding of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin to the *Ah* receptor
HING WO TSUI and ALLAN B. OKEY 927

Tuana, B.S.

Effect of prostaglandins on rat heart sarcolemmal ATPases
M. KARMAZYN, B.S. TUANA, and N.S. DHALLA 1122

Ulrich, M.

Effects of bradykinin on intestinal transcapillary fluid exchange
J.A. BARROWMAN, M.A. PERRY, P.R. KVIETYS, M. ULRICH, and D.N. GRANGER 786

Vaamonde, C.A.

Renal acidification in the hypothyroid rat. Evaluation by urinary CO_2 tension
ULRICH F. MICHAEL, JAN KELLEY, LAURENCE A. MEEKS, and CARLOS A. VAAMONDE 273

Vadlamudi, R.V.S.V.

Cardiac effects of prostaglandins E_1 and $\text{F}_{1\alpha}$
RAO V.S.V. VADLAMUDI and JOHN J. MCNEILL 473

Van Petten, G.R.

Placental transfer of indomethacin in the rabbit and sheep
W.H. HARRIS and G.R. VAN PETTEN 342

Vaughan, K.

Triazene metabolism. I. The effect of substituents in the aryl group on the kinetics of enzyme-catalysed *N*-demethylation of 1-aryl-3,3-dimethyltriazenes
JAMES R.P. GODIN, KEITH VAUGHAN, and KENNETH W. RENTON 1234

Vaughan, K.

Triazene metabolism. II. Transportability and enzyme inhibitory characteristics of metabolites of antitumor dimethyltriazenes
JAMES R.P. GODIN, GERARD LLANOS, KEITH VAUGHAN, and KENNETH W. RENTON 1239

Vaughan, P.C.

Some observations on the behaviour of chloride current-voltage relations in *Xenopus* muscle membrane in acid solutions
DONALD D.F. LOO, JAMES G. McLARNON, and PETER C. VAUGHAN 7

Veale, W.L.

Evidence of environmental influence on the development of thermoregulation in the rat
A.V. FERGUSON, W.L. VEALE, and K.E. COOPER 91

Veale, W.L.

Effect of hemorrhage on fever: the putative role of vasopressin
N.W. KASTING, W.L. VEALE, and K.E. COOPER 324

Veale, W.L.

Age-related differences in the febrile response of the New Zealand White rabbit to endotoxin
A.V. FERGUSON, W.L. VEALE, and K.E. COOPER 613

Veale, W.L.

Human interferon for clinical trials: removal of pyrogen by a simple two-step procedure
H. BORG, E. LUNDREN, M.D. HOLLENBERG, W.L. VEALE, Y.H. TAN, and A. MCPHERSON 890

Veress, A.T.

Cardiac a trial factor—an endogenous diuretic?
H. SONNENBERG, C.K. CHONG, and A.T. VERESS 1278

Verma, S.C.

Identification and specific blockade of histaminergic receptors in guinea pig vasa deferentia
DINESH P. JOSHI and SUBHASH C. VERMA 1089

Villeneuve, J.P.

Effect of ethanol on hepatic blood flow in unanesthetized dogs with chronic portal and hepatic vein catheterization
J.P. VILLENEUVE, G. POMIER, and P.M. HUET 598

Vinay, P.

Maintenance of glomerulotubular balance for bicarbonate during carbonic anhydrase inhibition in the dog
ANDRÉ GOUGOUX, MARIA-ANGELICA DURAN, GUY LEMIEUX, and PATRICK VINAY 225

- Vitiello, M.V.**
Effect of phenobarbital on sleep and nighttime plasma growth hormone and cortisol levels
PATRICIA N. PRINZ, MICHAEL V. VITIELLO, TIMOTHY A. ROEHRS, MARKKU LINNOILA, and ELLIOTT D. WEITZMAN 1139
- Vohra, M.M.**
Species differences in histamine receptors in the second vesicle
C.M. MACINTOSH and M.M. VOHRA 824
- von Euler, C.**
The contribution of sensory inputs to the pattern generation of breathing
C. VON EULER 700
- Wallén, P.**
Peripheral feedback mechanisms acting on the central pattern generators for locomotion in fish and cat
O. ANDERSSON, H. FORSSBERG, S. GRILLNER, and P. WALLÉN 713
- Warsh, J.**
Multiple binding sites for [³H]clonidine and [³H]WB-4101 in rat brain
PNINA WEINREICH, ANDREW CHIU, JERRY WARSH, and PHILIP SEEMAN 1170
- Watanabe, T.**
Single cells from adult mammalian heart: isolation procedure and preliminary electrophysiological studies
J. OMAR BUSTAMANTE, TOSHIFUMI WATANABE, and TERENCE F. McDONALD 907
- Watkins, D.W.**
Urinary zinc in relation to other cations and flow during volume expansion and intravenous chlorothiazide
DON W. WATKINS, LUCY D. ANTONIOU, and ROBERT J. SHALHOUB 562
- Weick, R.F.**
The pulsatile nature of luteinizing hormone secretion
RICHARD F. WEICK 779
- Weidoff, P.M., Jr.**
Alteration of acetylcholine receptor and acetylcholinesterase metabolism by actinomycin D in cultured muscle cells
PAUL M. WEIDOFF, JR., MARK G. MCNAMEE, and BARRY W. WILSON 580
- Weinreich, P.**
Multiple binding sites for [³H]clonidine and [³H]WB-4101 in rat brain
PNINA WEINREICH, ANDREW CHIU, JERRY WARSH, and PHILIP SEEMAN 1170
- Weitzman, E.D.**
Effect of phenobarbital on sleep and nighttime plasma growth hormone and cortisol levels
PATRICIA N. PRINZ, MICHAEL V. VITIELLO, TIMOTHY A. ROEHRS, MARKKU LINNOILA, and ELLIOTT D. WEITZMAN 1139
- Werman, R.**
Internal cesium ions block various K conductances in spinal motoneurons
E. PUIL and R. WERMAN 1280
- White, T.**
Tetrodotoxin-resistant release of ATP from guinea-pig taenia coli and vas deferens during electrical field stimulation in the presence of luciferin-luciferase
THOMAS WHITE, PAMELA POTTER, CATHERINE MOODY, and GEOFFREY BURNSTOCK 1094
- Wilkinson, M.**
A simple, inexpensive filtration device suitable for neurotransmitter receptor binding studies in brain tissue
M. WILKINSON and DALE GROVESTINE 504
- Willemot, J.**
Protein synthesis, amino acid uptake, and pools during isoproterenol-induced hypertrophy of the rat heart and tibialis muscle
YVES DESHAIES, JOAN WILLEMOT, and JACQUES LEBLANC 113
- Williams, M.**
Interaction of putative anxiolytic agents with central adenosine receptors
MICHAEL WILLIAMS, EDWIN A. RISLEY, and JOEL R. HUFF 897
- Williams, M.**
2-Chloroadenosine inhibits brain acetylcholine turnover in vivo
DEAN R. HAUBRICH, MICHAEL WILLIAMS, and GEORGE G. YARBROUGH 1196
- Wilson, B.W.**
Alteration of acetylcholine receptor and acetylcholinesterase metabolism by actinomycin D in cultured muscle cells
PAUL M. WEIDOFF, JR., MARK G. MCNAMEE, and BARRY W. WILSON 580
- Wilson, D.R.**
Effect of renal denervation, furosemide, and acute saline loading on postobstructive diuresis in the rat
D.R. WILSON and U. HONRATH 59
- Wisecarver, J.**
Catecholamines and the cephalic phase of gastric secretion
K. ETZEL, J. WISECARVER, and D.F. MAGEE 1189
- Wolchinsky, C.**
Adrenergic activity in arteries of spontaneously hypertensive rats
THOMAS T. ZSOTÉR, STEVE SIRKO, CAMILLE WOLCHINSKY, DEZSO KADAR, and LASZLO ENDRENYI 1104
- Wong, K.**
Inhibition of the *n*-formylmethionyl-leucyl-phenylalanine induced respiratory burst in human neutrophils by adrenergic agonists and prostaglandins of the E series
KENNETH WONG and KAREN FREUND 915
- Wood, P.L.**
Axonal transport in dystrophic hamsters
R.J. BOEGMAN and P.L. WOOD 202

Wootton, R.

Steady state glucose kinetics and their relation to plasma glucose concentration in the premature and full term neonatal piglet
P.A. FLECKNELL, R. WOOTTON, M. JOHN, and J.P. ROYSTON

1069

Workewych, J.

Short-term fluctuations in the concentration of cortisol and progesterone in fetal plasma, maternal plasma, and amniotic and allantoic fluids from sheep during late pregnancy
J.R.G. CHALLIS, J.E. PATRICK, JILL CROSS, J. WORKEWYCH, E. MANCHESTER, and S. POWER

261

Wright, G.L.

The vascular sensitizing character of plasma from spontaneously hypertensive rats
GARY L. WRIGHT

1111

Wu, P.H.

Phenothiazines inhibit adenosine uptake by rat brain synaptosomes
J.W. PHILLIS and P.H. WU

1108

Yagi, T.

The effect of rectal administration of insulin on the short-term treatment of alloxan-diabetic dogs
YOSHIMITSU YAMASAKI, MOTOAKI SHICHIRI, RYUZO KAWAMORI, TOYOHICO MORISHIMA, NOBUYOSHI HAKUI, TOSHIHIKO YAGI, and HIROSHI ABE

1

Yamasaki, Y.

The effect of rectal administration of insulin on the short-term treatment of alloxan-diabetic dogs
YOSHIMITSU YAMASAKI, MOTOAKI SHICHIRI, RYUZO KAWAMORI, TOYOHICO MORISHIMA, NOBUYOSHI HAKUI, TOSHIHIKO YAGI, and HIROSHI ABE

1

Yarbrough, G.G.

2-Chloroadenosine inhibits brain acetylcholine turnover in vivo
DEAN R. HAUBRICH, MICHAEL WILLIAMS, and GEORGE G. YARBROUGH

1196

Yokoyama, N.

Cyclic nucleotide phosphodiesterase in rat parotid gland
NORIKO YOKOYAMA, MAYUMI ABE, and SHUNSUKE FURUYAMA

293

York, D.H.

The reversal of hemorrhagic hypotension by naloxone in conscious rabbits
JAMES C. SCHATZ and DONALD H. YORK

1208

Yoshino, G.

Insulin and glucagon in rats with islet cell tumors induced by small doses of streptozotocin
GEN YOSHINO, TSUTOMU KAZUMI, SOICHIRO MORITA, and SHIGEAKI BABA

818

Zsotér, T.T.

Adrenergic activity in arteries of spontaneously hypertensive rats
THOMAS T. ZSOTÉR, STEVE SIRKO, CAMILLE WOLCHINSKY, DEZSO KADAR, and LASZLO ENDRENYI

1104

Zuperku, E.J.

Segmental ventricular adjustments to brief periods of ischemia in the dog
Z.J. BOSNJAK, J.L. SEAGARD, E.J. ZUPERKU, R.L. COON, H.M. SINGH, V.S. BAMRAH, and J.P. KAMPINE

287

**CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY/
JOURNAL CANADIEN DE PHYSIOLOGIE ET PHARMACOLOGIE
VOLUME 59 (1981)
SUBJECT INDEX/INDEX DES MATIERES**

- A 23187 trachea contraction 1031
Acetaldehyde ethanol calcium carbimide 65
Acetoacetate turnover radioassay 1178
Acetylcholine GIP somatostatin stomach 468
Acetylcholine heart elec activity 1058
Acetylcholine hippocampus neurotransmission 911
Acetylcholine metab brain chloroadenosine 1196
Acetylcholine receptor muscle RNA formation 580
Acetylcholine release myenteric plexus energy 555
Acetylcholinesterase muscle RNA formation 580
Acidification kidney calcium carbonate urine 800
Acidity intestine motilin 180
Acidity stomach intestine motilin 188
Adaptation catecholamine heat prodn 985
Adaptation central peripheral exercise training 1146
Adaptation cold adipose carnitine 351
Adenosine brain synaptosome phenothiazine 1108
Adenosine morphine intestine contraction 886
Adenosine receptor brain anxiolytic binding 897
Adenosine receptor presynaptic theophylline 603
Adipose brown carnitine noradrenaline 351
Adipose obesity enzyme starvation 355
Adrenal blood pressure brain stimulation 485
Adrenaline heat prodn adaptation 985
Adrenergic receptor brain 1170
Adrenergic receptor heart thyroid hormone 1039
Afferent commissural potentiation conditioned response 1117
Afferent muscle 656
Afferent respiratory phase switching pulmonary 675
Afferent spindle input jaw 707
Age artery elastin collagen unfolding 1050
Age endotoxin fever 613
Aggression brain serotonin fenfluramine 830
Ah receptor detn tetrachlorodibenzodioxin 927
Alc calcium carbimide acetaldehyde 65
Alc hippocampus potential 979
Alc liver circulation 598
Alc tolerance lithium 1203
Alk phosphatase kidney phosphate transport 311
Allantoic fluid cortisol progesterone 261
Allantoic fluid estrogen pregnancy 970
Almitrine carotid body 396
Amine brain chicken epilepsy 144
Amine nerve baclofen 244
Amino acid heart hypertrophy isoproterenol 113
Amino acid spinal neurotransmission 239
Amino acid visual cortex neurotransmission 893
Aminopyrine demethylase hepatocyte preservation 408
Amniotic fluid cortisol progesterone 261
Amniotic fluid estrogen pregnancy 970
Amphibian chloride transport muscle 7
Amyl nitrite artery relaxation 150
Amylase pancreas distribution 884
Amylase secretion pancreas calmodulin 994
Anas intestine function petroleum 1063
Androgen prostate carcinoma culture 949
Anemia vascular system 102
Anesthesia blood pressure renin 364
Anesthesia pentobarbital hemorrhage naloxone antihypotensive 1208
Anesthetic general receptor review 432
Angiotensin II blood pressure tonin 864
Anhydrase carbonic glomerulotubular balance bicarbonate 225
Anorexogenic pyroglutamylhistidylglycine 88
Antagonist muscle coactivation 733
Anticholinergic choline uptake brain 392
Anticonvulsant hydroxyvitamin D3 vitamin D3 1073
Antidepressant choline uptake brain 392
Antigen trachea contraction 1031
Antihypotensive naloxone hemorrhage 1208
Antipsychotic brain adenosine 1108
Antitumor triazene metab esterase inhibition 1239
Anxiolytic binding brain adenosine receptor 897
Aorta norepinephrine hypertension plasma calcium 1111
App filtration radioligand binding assay 504
Appetite electrolyte cerebrospinal fluid sheep 390
Artery catecholamine ketamine 520
Artery constriction noradrenaline hydralazine 1159
Artery kinin structure activity 380
Artery mesenteric renin substrate 528
Artery noradrenaline release sodium transport 347
Artery norepinephrine metab hypertension 1104
Artery norepinephrine tonin hypertension 790
Artery pulmonary contraction serotonin 157
Artery pulmonary receptor breathing 493
Artery relaxation nitrite mechanism 150
Artery stretch elastin collagen unfolding 1050
Aryl hydrocarbon hydroxylase induction receptor 927
Aspartate spinal nerve transmission 239
ATP bladder contraction nerve 1199
ATP bladder contraction prostaglandin 253
ATP release detn bioluminescence 1094
ATPase calcium sarcoplasmic reticulum fatigue 1214
ATPase heart sarcolemma prostaglandin 1122
ATPase nitrophenyl phosphatase activation thallium 1180
Atrial transducer receptor 837
Atrioventricular node acetylcholine 1058
Atrium cardiac endogenous diuretic 1278
Atrium histamine receptor 19
Axon myelinated retrograde temp velocity 857
Axon transport dystrophy 202
Axonal transport protein nerve electrolyte 31
Baclofen cholinergic synapse 244
Bacteria rumen manganese metab 76
Balanus sodium efflux muscle 1219
Barium muscle contraction mechanism 541
Beta receptor anesthesia blood pressure 364
Bicarbonate kidney glomerulotubular balance anhydrase 225
Bioluminescence ATP release detn 1094
Bladder contraction ATP prostaglandin 253
Bladder contraction dicyclomine rocurine 853
Bladder contraction nucleotide 1199
Blood cortisol growth hormone pentobarbital 1139
Blood estrogen embryo pregnancy 970

- Blood motilin intestine stomach 180
 Blood pressure anesthesia renin 364
 Blood pressure brain stimulation adrenal 485
 Blood pressure kidney review 513
 Blood pressure tonin angiotensin II 864
 Blood pressure vasopressin antagonist 1008
 Blood vessel contraction chicken 1228
 Blood vessel permeability kinin 921
 Blood vol carbon dioxide titrn 500
 Bradykinin blood vessel permeability 921
 Bradykinin degrading plasma 131
 Bradykinin intestine capillary permeability 786
 Bradykinin structure activity 380
 Bradykinin vein contraction receptor 371
 Brain acetylcholine metab chloroadenosine 1196
 Brain adenosine receptor anxiolytic binding 897
 Brain adrenergic receptor 1170
 Brain amine chicken epilepsy 144
 Brain catecholamine kidney denervation 1274
 Brain choline uptake antidepressant anticholinergic 392
 Brain desipramine distribution 163
 Brain hippocampus calcium diffusion 1022
 Brain membrane phenytoin binding 402
 Brain neuron GABA flurazepam 595
 Brain nicotine cardiovascular receptor 615
 Brain serotonin aggression fenfluramine 830
 Brain stimulation blood pressure adrenal 485
 Brain synaptosome adenosine phenothiazine 1108
 Breath pattern generation sensory input 700
 Breathing pulmonary artery receptor 493
 Bronchoconstriction carotid sinus nerve 965
 Brown adipose carnitine noradrenaline 351
 Bungarotoxin Limulus nervous system 139
 Calcitonin calcium transport intestine development 71
 Calcium ATPase sarcoplasmic reticulum fatigue 1214
 Calcium carbimide ethanol acetaldehyde 65
 Calcium carbonate urine kidney acidification 800
 Calcium conductance muscle embryo 335
 Calcium diffusion hippocampus 1022
 Calcium hypertension plasma aorta norepinephrine 1111
 Calcium muscle contraction barium 541
 Calcium muscle contraction dicyclomine rociverine 853
 Calcium muscle contraction temp 548
 Calcium muscle dantrolene 607
 Calcium muscle dantrolene response 358
 Calcium muscle propylidimethylaminomethylenedioxyindene 617
 Calcium noradrenaline release artery sodium 347
 Calcium regulation cell membrane stomach 1260
 Calcium resorption sulfate lumen 122
 Calcium trachea contraction 1031
 Calcium transport intestine development calcitonin 71
 Calcium transport myometrium membrane 1128
 Calmodulin amylase secretion pancreas 994
 Calmodulin cyclic nucleotide phosphodiesterase parotid 293
 cAMP heart catecholamine stellate stimulation 533
 cAMP heart prostaglandin 473
 cAMP muscle muscular dystrophy 329
 Capillary permeability intestine bradykinin 786
 Captopril substance P degrading 621
 Carbachol amylase secretion pancreas calmodulin 994
 Carbon dioxide titrn blood vol 500
 Carbon dioxide urine calcium carbonate 800
 Carbonate calcium urine kidney acidification 800
 Carbonic anhydrase glomerulotubular balance bicarbonate 225
 Carcinoma prostate culture steroid 949
 Cardiac atrium indogenous diuretic 1278
 Cardiac cell explant pharmacol review 443
 Cardiac respiration rhythm exercise 84
 Cardiovascular receptor nicotine brain 615
 Cardiovascular response pulmonary artery receptor 493
 Carnitine brown adipose noradrenaline 351
 Carotid body almitrine 396
 Carotid sinus nerve bronchoconstriction 965
 Catecholamine artery ketamine 520
 Catecholamine heart cAMP stellate stimulation 533
 Catecholamine heat prodn adaptation 985
 Catecholamine hypothalamus kidney denervation 1274
 Catecholamine neutrophil superoxide formylmethionyl-leucylphenylalanine 915
 Catecholamine phenolsulfotransferase platelet assay 300
 Catecholamine plasma pressure brain stimulation 485
 Catecholamine stomach secretion 1189
 Cell isolation mammal heart electrophys 907
 Cell membrane calcium regulation stomach 1260
 Central locomotion gating 727
 Centrifugation Ah receptor hydroxylase 927
 Centrifugation chromatog interferon pyrogen free 890
 Cerebellar circuit locomotion 776
 Cerebral cortex ibotenate 1025
 Cerebrospinal fluid electrolyte sheep appetite 390
 Cesium ion motoneuron spine 1280
 cGMP cholecystokinin gallbladder ileum 1100
 cGMP muscle muscular dystrophy 329
 Chemoreceptor heart almitrine 396
 Chest wall hemodynamics ventilation 45
 Chicken amine brain epilepsy 144
 Chicken blood vessel contraction 1228
 Chloride protein axonal transport nerve 31
 Chloride transport muscle Xenopus 7
 Chloride transport papillary muscle 479
 Chlorine transport muscle ouabain 794
 Chloroadenosine acetylcholine metab brain 1196
 Chlorothiazide urine zinc 562
 Cholecystokinin gallbladder ileum cGMP 1100
 Choline uptake brain antidepressant anticholinergic 392
 Cholinergic septum hippocampus mechanism 911
 Cholinesterase muscle RNA formation 580
 Chromatog centrifugation interferon pyrogen free 890
 Chronotropic histaminergic receptor heart 14
 Chymotrypsin pancreas distribution 884
 Circulation furosemide 1002
 Circulation Innovar 1184
 Circulation liver ethanol 598
 Circulation lymph intestine bradykinin 786
 Circulatory system endotoxemia 204
 Clonidine binding brain 1170
 Cofactor species propiophenone phenylacetone metab 195
 Cold adaptation adipose carnitine 351
 Cold water immersion expiration 843
 Collagen unfolding artery stretch 1050
 Colon contraction peptide hormone 957
 Commissural potentiation response perforant path 1117
 Conditioned response commissural potentiation afferent 1117
 Cortex visual synaptic neurotransmission 893
 Corticosteroid renin substrate artery 528
 Cortisol fluid pregnancy 261
 Cortisol plasma phenobarbital sleep 1139
 Crustacean sodium efflux muscle 1219
 Cyclic nucleotide phosphodiesterase parotid 293

- Cyclobenzaprime muscle relaxant mechanism 37
 Dantrolene muscle calcium 607
 Dantrolene muscle contraction elec activity 358
 DDC liver ferrochelataze 1155
 Death embryo steroid mother 168
 Demethylase aminopyrine hepatocyte preservation 408
 Demethylation triazene enzyme kinetics 1234
 Denervation kidney diuresis postobstruction 59
 Denervation kidney hypothalamus catecholamine 1274
 Denervation liver 1013
 Desipramine brain distribution pharmacokinetics 163
 Development calcium transport intestine calcitonin 71
 Diabetes insulin suppository 1
 Dicyclomine muscle contraction calcium 853
 Diet fat phys exercise heart 268
 Diet hypothalamus serotonin noradrenaline 108
 Diet manganese metab rumen 76
 Diffusion calcium hippocampus 1022
 Dihydrotestosterone prostate carcinoma culture 949
 Dimethyltriazena liver metab antitumor esterase 1239
 Diphenylhydantoin plasma hydroxyvitamin D3 1073
 Disobutamide disopyramide heart conduction 1192
 Disopyramide disobutamide heart conduction 1192
 Diuresis furosemide 1002
 Diuresis postobstruction kidney denervation 59
 Diuretic indogenous cardiac atrium 1278
 Dopamine brain chicken epilepsy 144
 Drug heart cell model review 443
 Drug receptor binding assay 504
 Duodenum acid myoelec complex 173
 Dystrophy axon transport 202
 Dystrophy muscular cAMP cGMP muscle 329
 Elastin unfolding artery stretch 1050
 Electrolyte cerebrospinal fluid sheep appetite 390
 Electrolyte protein axonal transport nerve 31
 Electrolyte resorption sulfate kidney 122
 Electrophys heart mammal cell isolation 907
 Electrophysiol heart ischemia potassium sodium 876
 Embryo calcium conductance muscle 335
 Embryo death steroid mother 168
 Embryo estrogen mother 970
 Embryo plasma cortisol progesterone 261
 Endorphin structure physiol review 413
 Endotoxemia circulatory system 204
 Endotoxin fever age 613
 Energy acetylcholine release myenteric plexus 555
 Enkephalin ileum contraction inhibition 901
 Environment thermoregulation rat 91
 Enzyme adipose liver obesity starvation 355
 Enzyme kinetics triazene demethylation 1234
 Enzyme muscle exercise training 1146
 Enzyme pancreas distribution 884
 Enzyme stomach muscle mitochondria microsome 1260
 Enzymic detection lipotropin opioid peptide 811
 Epilepsy chicken amine brain 144
 Eseroline opiate activity 307
 Esterase inhibition triazene metab antitumor 1239
 Estradiol embryo mother pregnancy 970
 Estradiol prolactin secretion somatostatin 1082
 Estradiol prostate carcinoma culture 949
 Estrogen embryo mother pregnancy 970
 Estrogen noradrenaline metab uterus 1245
 Estrogen pregnancy embryo death 168
 Estrone embryo mother pregnancy 970
 Ethanol calcium carbimide acetaldehyde 65
 Ethanol hippocampus potential 979
 Ethanol liver circulation 598
 Ethanol tolerance lithium 1203
 Exercise respiration cardiac rhythm 84
 Exercise respiration propranolol 567
 Exercise training central peripheral adaptation 1146
 Expiration cold water immersion 843
 Fat diet phys exercise heart 268
 Fat stomach intestine motilin 188
 Fat stomach motilin release 180
 Fatigue sarcoplasmic reticulum calcium ATPase 1214
 Fatty acid myocardium respiration 806
 Feedback central pattern generator locomotion 713
 Fenfluramine aggression brain serotonin 830
 Ferrochelataze liver porphyrinogenic drug 1155
 Fever endotoxin age 613
 Fever hemorrhage vasopressin release 324
 Fibroblast human interferon purin 890
 Filtration app radioligand binding assay 504
 Fluorocortisone kidney hydrogen ion potassium 235
 Flurazepam brain neuron GABA 595
 Formylmethionylleucylphenylalanine neutrophil superoxide hormone 915
 Furosemide diuresis heart circulation 1002
 GABA brain neuron flurazepam 595
 Gallbladder contraction cholecystokinin cGMP 1100
 Ganglion stellate heart cAMP catecholamine 533
 Gastrin release stomach lumen 574
 Gating central locomotion 727
 General anesthetic receptor review 432
 Genetics population serum paraoxon hydrolase 904
 GIP somatostatin release stomach 468
 Glomerulotubular balance kidney bicarbonate anhydride 225
 Glucagon pancreas tumor streptozotocin 818
 Glucose acetylcholine release myenteric plexus 555
 Glucose metab plasma premature newborn 1069
 Glucose resorption kidney review 209
 Glutamate spinal nerve transmission 239
 Griseofulvin liver ferrochelataze 1155
 Growth hormone plasma phenobarbital sleep 1139
 Guanylate cyclase artery nitrite 150
 Hb carbon dioxide titrn 500
 Heart amine receptor thyroid hormone 1039
 Heart cAMP catecholamine stellate stimulation 533
 Heart cAMP cGMP muscular dystrophy 329
 Heart chemoreceptor almitrine 396
 Heart circulation furosemide 1002
 Heart conduction disopyramide disobutamide 1192
 Heart contraction cAMP prostaglandin 473
 Heart elec activity acetylcholine 1058
 Heart fat diet phys exercise 268
 Heart histamine receptor 19
 Heart histaminergic chronotropic receptor 14
 Heart hypertrophy isoproterenol protein formation 113
 Heart Innovar 1184
 Heart ischemia electrophysiol potassium sodium 876
 Heart mammal cell isolation electrophys 907
 Heart output exercise training 1146
 Heart papillary chloride transport 479
 Heart respiration fatty acid myocardium 806
 Heart sarcolemma ATPase prostaglandin 1122
 Heart tamponade sodium excretion prostaglandin 586
 Heart theophylline histamine agonist interaction 25
 Heart venous pressure 1250
 Heat prodn catecholamine adaptation 985
 Hemodynamics chest wall pericardium 45
 Hemorrhage fever vasopressin release 324
 Hemorrhage naloxone antihypotensive 1208
 Hepatocyte aminopyrine demethylase preservation 408
 Hering Breuer inflation reflex mammal 1017
 Hippocampus calcium diffusion 1022
 Hippocampus potential ethanol 979
 Hippocampus septum cholinergic mechanism 911

- Histamine agonist theophylline interaction heart 25
 Histamine carotid nerve bronchoconstriction 965
 Histamine receptor atrium 19
 Histamine receptor seminal vesicle 824
 Histamine receptor vas deferens 1089
 Histaminergic chronotropic receptor heart 14
 Histaminic receptor heart thyroid hormone 1039
 Hydralazine noradrenaline artery constriction 1159
 Hydrogen ion kidney mineralocorticoid potassium 235
 Hydrogen ion secretion kidney hypothyroidism 273
 Hydrolase paraoxon serum population genetics 904
 Hydroxybutyrate turnover radioassay 1178
 Hydroxylase aryl hydrocarbon induction receptor 927
 Hydroxytryptamine lung blood vessel 157
 Hydroxyvitamin D3 anticonvulsant vitamin D3 1073
 Hypertension artery norepinephrine tonin 790
 Hypertension diet salt linoleate 872
 Hypertension kidney review 513
 Hypertension norepinephrine metab artery 1104
 Hypertension plasma aorta norepinephrine calcium 1111
 Hypothyroidism heart amine receptor 1039
 Hypertrophy heart isoproterenol protein formation 113
 Hypothalamus catecholamine kidney denervation 1274
 Hypothalamus serotonin noradrenaline diet 108
 Hypothyroidism heart amine receptor 1039
 Hypothyroidism kidney hydrogen ion secretion 273
 Hypoxia acetylcholine release myenteric plexus 555
 Ibotenate cerebral cortex 1025
 Ileum contraction cholecystokinin cGMP 1100
 Ileum contraction inhibition enkephalin 901
 Indomethacin placenta transfer 342
 Inflation reflex Hering Breuer mammal 1017
 Injury liver prostaglandin phospholipase 1268
 Innovar heart circulation respiration 1184
 Innovar neuroleptanalgesia 1184
 Insect motor system sensory input 660
 Insulin pancreas tumor streptozotocin 818
 Insulin suppository diabetes 1
 Interferon human purin fibroblast 890
 Intestine calcium transport development calcitonin 71
 Intestine capillary permeability bradykinin 786
 Intestine contraction morphine adenosine 886
 Intestine function Anas petroleum 1063
 Intestine motilin acidity fat 180
 Intestine stomach content motilin 188
 Intestine tapeworm migration serotonin 281
 Intestine transport kinetics Lineweaver Burk plot 932
 Ischemia heart electrophysiol potassium sodium 876
 Ischemia ventricle 287
 Isoproterenol heart hypertrophy protein formation 113
 Isoproterenol rat tail thermoregulatory response 847
 Isoproterenol respiration fatty acid myocardium 806
 Isoproterenol stomach secretion 1189
 Jaw muscle proprioceptive input 636
 Jaw opening reflex mastication 683
 Jaw spindle afferent input 707
 Kallidin structure activity 380
 Ketamine artery catecholamine 520
 Ketone body turnover radioassay 1178
 Kidney acidification calcium carbonate urine 800
 Kidney alk phosphatase phosphate transport 311
 Kidney blood pressure review 513
 Kidney denervation diuresis postobstruction 59
 Kidney denervation hypothalamus catecholamine 1274
 Kidney glomerulotubular balance bicarbonate anhy=drase 225
 Kidney glucose resorption review 209
 Kidney hydrogen ion mineralocorticoid potassium 235
 Kidney hydrogen ion secretion hypothyroidism 273
 Kidney prostaglandin sodium excretion cardiopathy 586
 Kidney renin substrate artery 528
 Kidney sulfate resorption electrolyte 122
 Kidney zinc metab chlorothiazide 562
 Kinetics transport intestine Lineweaver Burk plot 932
 Kinin blood vessel permeability 921
 Kinin structure activity 380
 Lactation stomach RNA protein 96
 Lethal factor submandibular gland 1134
 LH pulsatile secretion review 779
 Limulus nervous system bungarotoxin 139
 Lineweaver Burk plot transport kinetics intestine 932
 Linoleate salt diet hypertension 872
 Lipotropin detection pituitary 811
 Lithium ethanol tolerance 1203
 Liver aminopyrine demethylase preservation 408
 Liver circulation ethanol 598
 Liver denervation 1013
 Liver dimethyltriazena metab antitumor esterase 1239
 Liver enzyme obesity starvation 355
 Liver ferrochelatase porphyrinogenic drug 1155
 Liver prostaglandin release phospholipase A2 1268
 Locomotion central gating 727
 Locomotion cerebellar circuit 776
 Locomotion peripheral feedback 713
 Locomotion stimulus response 667
 Locomotion transcortical reflex servo control 757
 Locomotion tremor sensory pattern 645
 Luciferase ATP release detn 1094
 Luciferin ATP release detn 1094
 Lung blood vessel serotonin 157
 Lymph circulation intestine bradykinin 786
 Magnesium resorption sulfate lumen 122
 Mammal cell isolation heart electrophys 907
 Mammal Hering Breuer inflation reflex 1017
 Manganese metab rumen sheep 76
 Mastication jaw opening reflex 683
 Membrane brain phenytoin binding 402
 Membrane cell calcium regulation stomach 1260
 Membrane myometrium calcium transport 1128
 Mesenteric artery renin substrate 528
 Methoxamine stomach secretion 1189
 Methyleneiodoxyindene propyldimethylamino muscle calcium 617
 Microsome enzyme stomach muscle 1260
 Mineralocorticoid kidney hydrogen ion potassium 235
 Mitochondria enzyme stomach muscle 1260
 Morphine intestine contraction adenosine 886
 Motilin intestine acidity fat 180
 Motilin intestine stomach content 188
 Motilin plasma myoelec complex 173
 Motor cortical muscle 748
 Motor program sensory input schema 691
 Muscle afferent 656
 Muscle antagonist coactivation 733
 Muscle calcium ATPase fatigue 1214
 Muscle calcium conductance embryo 335
 Muscle calcium dantrolene 607
 Muscle calcium propyldimethylaminomethylenedioxy=ndene 617
 Muscle cAMP cGMP muscular dystrophy 329
 Muscle chloride transport Xenopus 7
 Muscle chlorine transport ouabain 794
 Muscle contraction barium mechanism 541
 Muscle contraction dicyclomine rociverine calcium 853
 Muscle contraction elec activity dantrolene 358
 Muscle contraction temp calcium 548
 Muscle enzyme exercise training 1146

- Muscle hypertrophy isoproterenol protein formation 113
- Muscle jaw proprioceptive input 636
- Muscle motor cortical 748
- Muscle papillary chloride transport 479
- Muscle relaxant cyclobenzaprine mechanism 37
- Muscle RNA formation acetylcholine receptor 580
- Muscle sodium efflux Balanus 1219
- Muscle stomach enzyme mitochondria microsome 1260
- Muscular dystrophy cAMP cGMP muscle 329
- Myelinated axon retrograde particle transport 857
- Myenteric plexus acetylcholine release energy 555
- Myocardium respiration fatty acid 806
- Myoelec complex duodenum acid plasma motilin 173
- Myometrium membrane calcium transport 1128
- NADH propiophenone phenylacetone metab 195
- NADPH propiophenone phenylacetone metab 195
- Naloxone antihypertensive hemorrhage 1208
- Nerve bladder contraction ATP 1199
- Nerve carotid sinus bronchoconstriction 965
- Nerve kidney catecholamine hypothalamus 1274
- Nerve liver 1013
- Nerve protein axonal transport electrolyte 31
- Nerve spinal amino acid 239
- Nervous system Limulus bungarotoxin 139
- Neuroleptanalgesia Innovar 1184
- Neuron brain GABA flurazepam 595
- Neurotransmission hippocampus acetylcholine 911
- Neurotransmission spinal amino acid 239
- Neurotransmission synaptic visual cortex 893
- Neurotransmitter receptor binding assay 504
- Neutrophil superoxide formylmethionylleucylphenylalanine hormone 915
- Newborn premature glucose metab plasma 1069
- Nicotine cardiovascular receptor brain 615
- Nitrite artery relaxation mechanism 150
- Nitroglycerin artery relaxation 150
- Nitrophenyl phosphatase ATPase activation thallium 1180
- Noradrenaline artery constriction hydralazine 1159
- Noradrenaline brown adipose carnitine 351
- Noradrenaline heat prodn adaptation 985
- Noradrenaline hypothalamus diet 108
- Noradrenaline metab uterus 1245
- Noradrenaline release artery sodium transport 347
- Norepinephrine aorta hypertension plasma calcium 1111
- Norepinephrine artery tonin hypertension 790
- Norepinephrine brain chicken epilepsy 144
- Norepinephrine heart venous pressure 1250
- Norepinephrine metab artery hypertension 1104
- Norfenfluramine aggression brain serotonin 830
- Nucleotide bladder contraction 1199
- Nucleotide cyclic phosphodiesterase parotid 293
- Obesity starvation adipose liver enzyme 355
- Opiate activity eseroline 307
- Opioid peptide detection pituitary 811
- Ouabain chlorine transport muscle 794
- Ovalbumin trachea contraction 1031
- Ovarian cycle noradrenaline metab uterus 1245
- Pancreas amylase secretion calmodulin 994
- Pancreas enzyme distribution 884
- Pancreas tumor streptozotocin insulin 818
- Papillary muscle chloride transport 479
- Paraaxon hydrolase serum population genetics 904
- Parotid cyclic nucleotide phosphodiesterase 293
- Pentobarbital anesthesia hemorrhage naloxone antihypertensive 1208
- Peptide hormone colon contraction 957
- Peptide opioid detection pituitary 811
- Perforant path commissural potentiation response 1117
- Pericardium hemodynamics ventilation 45
- Petroleum intestine function Anas 1063
- PGE1 heart contraction cAMP 473
- PGF1 heart contraction cAMP 473
- Phenobarbital plasma hydroxyvitamin D3 1073
- Phenobarbital sleep cortisol growth hormone 1139
- Phenolsulfotransferase platelet assay catecholamine 300
- Phenothiazine brain synaptosome adenosine 1108
- Phenylacetone metab cofactor species 195
- Phenytin binding brain membrane 402
- Phosphatase alk kidney phosphate transport 311
- Phosphatase nitrophenyl ATPase activation thallium 1180
- Phosphate transport intestine development calcitonin 71
- Phosphate transport kidney alk phosphatase 311
- Phosphodiesterase cyclic nucleotide parotid 293
- Phospholipase A2 prostaglandin release liver 1268
- Phys exercise fat diet heart 268
- Pituitary lipotropin opioid peptide detection 811
- Placenta transfer indomethacin 342
- Plasma bradykinin degradn 131
- Plasma catecholamine pressure brain stimulation 485
- Plasma cortisol progesterone pregnancy 261
- Plasma glucose metab premature newborn 1069
- Plasma hypertension aorta norepinephrine calcium 1111
- Plasma motilin myoelec complex 173
- Plasma red cell spleen 53
- Plasma renin substrate artery 528
- Plasma renin substrate P degradn 621
- Platelet phenolsulfotransferase assay catecholamine 300
- Population genetics serum paraaxon hydrolase 904
- Porphyrinogenic drug liver ferrochelatase 1155
- Potassium aorta hypertension plasma calcium 1111
- Potassium heart ischemia electrophysiol 876
- Potassium kidney hydrogen ion mineralocorticoid 235
- Potassium transport activation thallium 1180
- Pregnancy cortisol progesterone fluid 261
- Pregnancy estrogen embryo mother 970
- Pregnancy steroid embryo death 168
- Pregnancy stomach RNA protein 96
- Premature newborn glucose metab plasma 1069
- Preservation aminopyrine demethylase hepatocyte 408
- Pressure pulmonary artery receptor 493
- Presynaptic adenosine receptor theophylline 603
- Progesterone fluid pregnancy 261
- Progesterone pregnancy embryo death 168
- Prolactin secretion somatostatin estradiol 1082
- Propioceptive input jaw muscle 636
- Propiophenone metab cofactor species 195
- Propionolol exercise respiration 567
- Propyldimethylaminomethylenedioxindene muscle calcium 617
- Prostaglandin ATP bladder contraction 253
- Prostaglandin ATPase heart sarcolemma 1122
- Prostaglandin heart contraction cAMP 473
- Prostaglandin neutrophil superoxide formylmethionylleucylphenylalanine 915
- Prostaglandin release liver phospholipase A2 1268
- Prostaglandin sodium excretion heart tamponade 586
- Prostate carcinoma culture steroid 949
- Protein axonal transport nerve electrolyte 31
- Protein formation isoproterenol heart hypertrophy 113
- Protein stomach pregnancy lactation 96
- Protozoa rumen manganese metab 76
- Pulmonary afferent respiratory phase switching 675
- Pulmonary artery receptor breathing 493

- Purine receptor brain anxiolytic binding 897
 Pyridylcarbinol respiration fatty acid myocardium 806
 Pyrogen free interferon chromatog centrifugation 890
 Pyroglutamylhistidylglycine prepn anorexogenic 88
 Radioassay Ah receptor hydroxylase 927
 Radioassay ketone body turnover 1178
 Radioligand binding assay filtration app 504
 Radioreceptor detection lipotropin opioid peptide 811
 R.t tail thermoregulatory response isoproterenol 847
 Receptor acetylcholine muscle RNA formation 580
 Receptor adenosine brain anxiolytic binding 897
 Receptor adenosine presynaptic theophylline 603
 Receptor adrenergic brain 1170
 Receptor Ah detn tetrachlorodibenzodioxin 927
 Receptor amine heart thyroid hormone 1039
 Receptor beta anesthesia blood pressure 364
 Receptor bradykinin vein contraction 371
 Receptor cardiovascular nicotine brain 615
 Receptor general anesthetic review 432
 Receptor histamine atrium 19
 Receptor histamine seminal vesicle 824
 Receptor histamine vas deferens 1089
 Receptor histaminergic chronotropic heart 14
 Receptor neurotransmitter binding assay 504
 Receptor pulmonary artery breathing 493
 Red cell plasma spleen 53
 Reflex inflation Hering Breuer mammal 1017
 Reflex opening jaw mastication 683
 Reflex transcortical servo control locomotion 757
 Relaxin uterus contraction bioassay 507
 Renin blood pressure anesthesia 364
 Renin furosemide diuresis 1002
 Renin substrate blood pressure tonin 864
 Renin substrate mesenteric artery 528
 Resorption electrolyte sulfate kidney 122
 Resorption glucose kidney review 209
 Respiration cardiac rhythm exercise 84
 Respiration exercise propranolol 567
 Respiration exercise training 1146
 Respiration Innovar 1184
 Respiration myocardium fatty acid 806
 Respiratory phase switching afferent pulmonary 675
 Response stimulus locomotion 667
 Retrograde particle transport myelinated axon 857
 Review endorphin structure physiol 413
 Review general anesthetic receptor 432
 Review glucose resorption kidney 209
 Review kidney blood pressure 513
 Review LH pulsatile secretion 779
 Review pharmacol cardiac cell explant 443
 Rhythm cardiac respiration exercise 84
 RNA formation muscle acetylcholine receptor 580
 RNA stomach pregnancy lactation 96
 Rociverine muscle contraction calcium 853
 Rumen manganese metab sheep 76
 Saliva lethal factor 1134
 Salt linoleate diet hypertension 872
 Sarcolemma heart ATPase prostaglandin 1122
 Sarcoplasmic reticulum calcium ATPase fatigue 1214
 Seminal vesicle histamine receptor 824
 Sensory input breath pattern generation 700
 Sensory input insect motor system 660
 Sensory input motor program schema 691
 Sensory pattern locomotion tremor 645
 Septum hippocampus cholinergic mechanism 911
 Serotonin brain aggression fenfluramine 830
 Serotonin brain chicken epilepsy 144
 Serotonin carotid nerve bronchoconstriction 965
 Serotonin hypothalamus diet 108
 Serotonin lung blood vessel 157
 Serotonin tapeworm migration intestine 281
 Serum paraoxon hydrolase population genetics 904
 Servo control locomotion transcortical reflex 757
 Sheep electrolyte cerebrospinal fluid appetite 390
 Sheep heat prodn catecholamine 985
 Sheep manganese metab rumen 76
 Sinus node acetylcholine 1058
 Skin vascular permeability kinin 921
 Sleep phenobarbital cortisol growth 1139
 Sodium conductance muscle embryo 335
 Sodium efflux muscle Balanus 1219
 Sodium excretion heart tamponade prostaglandin 586
 Sodium heart ischemia electrophysiol 876
 Sodium nitrite artery relaxation 150
 Sodium protein axonal transport nerve 31
 Sodium transport activation thallium 1180
 Sodium transport noradrenaline release artery 347
 Somatosensory input spinal cord 627
 Somatostatin prolactin secretion estradiol 1082
 Somatostatin release stomach GIP 468
 Somatostatin release stomach lumen 574
 Spinal cord somatosensory input 627
 Spinal neurotransmission amino acid 239
 Spindle afferent input jaw 707
 Spine motoneuron cesium ion 1280
 Spleen plasma red cell 53
 Starvation obesity adipose liver enzyme 355
 Stellate stimulation heart cAMP catecholamine 533
 Steroid mother embryo death 168
 Stimulus response locomotion 667
 Stomach calcium regulation cell membrane 1260
 Stomach content motilin 188
 Stomach fat motilin release 180
 Stomach lumen somatostatin gastrin release 574
 Stomach RNA protein pregnancy lactation 96
 Stomach secretion catecholamine 1189
 Stomach somatostatin release GIP 468
 Streptozotocin pancreas tumor insulin 818
 Structure activity kinin 380
 Structure activity theophylline analog 603
 Structure demethylation triazene enzyme kinetics 1234
 Submandibular gland lethal factor 1134
 Substance P degnrd plasma 621
 Sugar resorption kidney review 209
 Sulfate kidney resorption electrolyte 122
 Superoxide neutrophil formylmethionylleucylphenylala-nine hormone 915
 Synapse adenosine receptor anxiolytic binding 897
 Synapse cholinergic baclofen 244
 Synaptic neurotransmission visual cortex 893
 Synaptosome brain adenosine phenothiazine 1108
 Tamponade heart sodium excretion prostaglandin 586
 Tapeworm migration intestine serotonin 281
 Temp muscle contraction calcium 548
 Temp muscle dantrolene response 358
 Temp pulmonary artery receptor 493
 Tenia coli ATP release detn 1094
 Testosterone prostate carcinoma culture 949
 Tetrachlorodibenzodioxin Ah receptor detn 927
 Tetradotoxin ATP release detn 1094
 Thallium activation nitrophenyl phosphatase ATPase 1180
 Theophylline histamine agonist interaction heart 25
 Theophylline morphine intestine contraction adenosine 886
 Theophylline presynaptic adenosine receptor 603
 Thermoregulation rat environment 91
 Thyroid hormone heart amine receptor 1039
 Tissue Ah receptor detn 927
 Tonin blood pressure angiotensin II 864
 Tonin lipotropin digestion 811
 Tonin norepinephrine artery hypertension 790

- Trachea contraction antigen A 23187 1031
Training exercise central peripheral adaptation 1146
Transcortical reflex servo control locomotion 757
Transducer atrial receptor 837
Transport calcium intestine development calcitonin 71
Transport calcium myometrium membrane 1128
Transport calcium stomach muscle 1260
Transport chloride muscle *Xenopus* 7
Transport chloride papillary muscle 479
Transport kinetics intestine Lineweaver Burk plot 932
Transport particle retrograde myelinated axon 857
Transport phosphate kidney alk phosphatase 311
Transport sodium noradrenaline release artery 347
Transport sodium potassium activation thallium 1180
Triazene antitumor metab esterase inhibition 1239
Triazene demethylation enzyme kinetics 1234
Tumor pancreas streptozotocin insulin 818
Urine calcium carbonate kidney acidification 800
Urine zinc chlorothiazide 562
Uterus contraction relaxin bioassay 507
Uterus membrane calcium transport 1128
Uterus noradrenaline metab 1245
Vagus GIP somatostatin stomach 468
Vas deferens ATP release detn 1094
Vas deferens histamine receptor 1089
Vascular system anemia 102
Vasoactive agent chicken blood vessel 1228
Vasoconstriction noradrenaline hydralazine inhibition 1159
Vasopressin antagonist blood pressure 1008
Vasopressin release hemorrhage fever 324
Vein contraction bradykinin receptor 371
Vein kinin structure activity 380
Vein pulmonary contraction serotonin 157
Venous pressure heart 1250
Ventilation hemodynamics 45
Ventricle ischemia 287
Visual cortex synaptic neurotransmission 893
Vitamin D3 anticonvulsant hydroxyvitamin D3 1073
Water layer transport intestine 932
WB 4101 binding brain 1170
Xenopus chloride transport muscle 7
Zinc urine chlorothiazide 562



